

16 February 2015

Ms. Lauri Kemper, P.E.
Assistant Executive Officer
Lahonton Regional Water Quality Control Board
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150

Attention: Ms. Lisa Scorable

**Subject: Transmittal of
Phase 1 Site Groundwater Investigation Report
Crystal Geyser Roxane – Spring Water Bottling Facility
1210 South US Highway 395
Olancho, California**

Dear Ms. Scorable:

Geosyntec Consultants, Inc., (Geosyntec) on behalf of Crystal Geyser Roxane, LLC (CGR), hereby submits the attached *Phase 1 Site Groundwater Investigation Report* for the CGR Spring Water Bottling Facility (Site) located at 1210 South U.S. Highway 395, near Olancho, California. The Phase 1 groundwater investigation was completed in response to the Lahonton Regional Water Quality Control Board (RWQCB) Investigative Order Number R6V-2014-0063 (Order) dated July 24, 2014. The scope of work for the Site Investigation was presented in the *Site Groundwater Investigation Work Plan* (Plan) dated October 17, 2014. The Plan was conditionally approved by the RWQCB in their letter dated November 12, 2014.

Based on the results of the Phase 1 Site Groundwater Investigation, groundwater monitoring wells are recommended. Geosyntec would like to give the RWQCB a chance to respond to the recommended well installation plan. As such, Geosyntec on behalf of CGR, respectfully requests a 90 day extension to the March 20, 2015, report deadline to provide for sufficient time for a response from the RWQCB and subsequent well installation activities.

Transmittal Phase 1 Report
CGR, Olancha
16 February, 2015

If you have any questions related to this letter, report, or other issues, please do not hesitate to call Ryan Smith at 805 897 3800.

Sincerely,
Geosyntec Consultants



Mark Grivetti, P.G., C.Hg.
Principal Hydrogeologist



Ryan Smith
Project Geologist, P.G., C.Hg.

Copy: Mr. Page Beykpour, CGR, Vice President, General Council

Prepared for

CG Roxane, LLC
1210 South Highway 395
Olancho, California 93549

PHASE 1 SITE GROUNDWATER INVESTIGATION REPORT

Olancho Spring Water Bottling Facility
1210 South U.S. Highway 395
Olancho, California

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

924 Anacapa Street, Suite 4A
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16 February 2015

PHASE 1 SITE GROUNDWATER INVESTIGATION REPORT

Olancha Spring Water Bottling Facility

1210 South U.S. Highway 395
Olancha, California

Prepared for

Crystal Geyser Roxane

16 February 2015



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EXECUTIVE SUMMARY

The Phase 1 Site investigation was conducted to evaluate the groundwater conditions at a screening level in the areas around the arsenic pond (AP), the east pond (EP), and the fire pond (FP), as well as near the cooling tower on the north side of the northern bottling facility. A total of 10 groundwater samples were collected to gather screening level data in order to better evaluate groundwater quality conditions and identify appropriate locations for groundwater monitoring wells. Additionally, waste water samples were collected from both the northern and southern bottling plants, and from water discharge locations of the AP, EP, and FP, for characterization and comparison to groundwater quality.

The results of the Phase 1 Investigation indicate that the primary constituents of concern in the groundwater in the investigation areas of the AP, EP, and FP, are metals. Additionally, elevated concentrations of sulfate and total dissolved solids (TDS) were also detected at concentrations exceeding their secondary MCLs in borings adjacent to the AP. Significant differences between the elevated concentrations of total metals and the generally corresponding low to not detected dissolved metals concentrations indicate that the suspended sediment in the screening level grab groundwater samples significantly contributed to the elevated detections in the total metals results.

An exception is the total and dissolved arsenic concentrations from AP-2, which are both elevated. This result suggests that there are arsenic impacts to groundwater in a limited area immediately adjacent to the AP (See Figure 3). The extent of the potential impact to groundwater in this area appears limited based on significantly lower arsenic concentrations found in AP-3 located down gradient from boring AP-2. Additionally, it appears that any potential impacts to the groundwater, if present, have not migrated off the Site property and has not impacted neighboring water users or domestic wells.

It is important to note that elevated arsenic is known to be a naturally occurring element in the soils and in deeper groundwater (approximately 16 to 28 µg/L¹) beneath the Site based on regular water quality sampling conducted at the Site production wells. Additionally, dissolved arsenic has been detected in the shallow groundwater at Owens Lake at concentrations ranging from 0.1 to 150 mg/L (Reid J.S, et.al 1994, and Ryu, J-H. et. al 2002). These results indicate that elevated concentrations of naturally occurring arsenic in the groundwater found east of the Site has been detected at significantly higher concentrations than detected in all of Phase 1 groundwater samples.

Furthermore, comparison of the low to non-detected concentrations of key metals of concern in waste water samples to the groundwater sample results, indicates that the metals detected in groundwater samples near the EP and FP are likely not attributed to

¹ Range of arsenic concentrations based on annual sample results in 2012 and 2013 from production wells CGR-1, CGR-3, CGR-5, CGR-6, and CGR-7.

waste water discharges at the Site. As indicated previously, the total metals concentrations in the groundwater samples were likely the result of very high suspended sediment in the samples collected, and may represent naturally occurring background metals concentrations in the soil at the Site.

Based on the data collected during the Phase 1 preliminary Site groundwater investigation, installation of groundwater monitoring wells is recommended for the areas surrounding the AP, EP, and FP, to verify the Phase 1 screening data. A total of seven shallow groundwater monitoring wells are proposed for Phase 2 of the Site groundwater investigation.

1.0 INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec), on behalf of Crystal Geysers Roxane (CGR), hereby submits the Phase 1 Site Groundwater Investigation Report for the CGR Spring Water Bottling Facility (Site) located at 1210 South U.S. Highway 395, near Olancho, California.

The Phase 1 groundwater investigation was completed in response to the Lahonton Regional Water Quality Control Board (RWQCB) Investigative Order Number R6V-2014-0063 (Order) dated July 24, 2014. CGR uses groundwater production wells for the bottled water supply as well as for domestic and industrial purposes. The Order was issued by the RWQCB based on water discharges that CGR generates as part of their business operations. The Order requires that an investigation be conducted to assess if the Site's historical and current water discharges have affected groundwater quality and beneficial uses.

The scope of work for the Site Investigation was presented in the Site Groundwater Investigation Work Plan (Plan) dated October 17, 2014 (Geosyntec, 2014). The Plan was conditionally approved by the RWQCB in their letter dated November 12, 2014.

The objectives of the Phase 1 scope of work were:

- Preliminarily evaluate lithology and groundwater quality conditions using a screening level investigation near the arsenic pond (AS), east pond (EP), and the fire pond (FP) and fire pond overflow discharge area;
- Based on the data collected in the Phase 1 investigation, propose further groundwater evaluation, including installation of monitoring wells to verify the results of the Phase 1 screening assessment.

2.0 SUMMARY OF WORK PERFORMED

The Phase 1 field screening-level sampling program was conducted in general accordance with procedures outlined in the Plan. The following sections describe the scope of work completed at the Site. The Phase 1 drilling and groundwater sample locations are shown in **Figure 2**. Deviations from the Work Plan are discussed in the following sections, where applicable.

2.1 Pre-Field Preparation

A site-specific Health & Safety Plan (HASP) was prepared to identify the potential work and health hazards associated with conducting the field work. The HASP was prepared for Geosyntec employees while subcontractors were required to provide their own site-specific health and safety plans. Geosyntec conducted tailgate health and safety meetings every morning prior to starting work.

Underground Service Alert was contacted 48-hours in advance of field work. Boring locations were marked with white survey stakes and the property was marked in white paint so that utility companies could mark and identify any potential buried utility lines. Geosyntec contacted the County of Inyo Environmental Health Department prior to drilling and determined that a permit was not required for the soil borings.

2.2 Soil Borings and Groundwater Hydropunch Sampling

A total of 11 borings were completed for the Phase 1 investigation (Figure 2). Drilling and groundwater sampling were conducted in general accordance with the Plan and conditions in the November 12, 2014 RWQCB comment letter. In general, the following drilling and sampling activities were performed:

- Between January 5 and 8, 2015, direct push soil borings were advanced to a depths ranging from 10 to 24 feet below ground surface (ft bgs).
- When the top of the groundwater surface was encountered in each soil boring, the boring was advanced approximately 2 feet below the top of groundwater, and a groundwater sample was collected using a Hydropunch groundwater sampling tool.
- Groundwater samples were collected in bottles prepared by the laboratory, stored immediately on wet ice, and delivered overnight to Eurofins Eaton Analytical, in Monrovia, California.
 - A total of 11 primary groundwater samples, one duplicate sample, four equipment blank samples, and two trip blank samples were collected.

- Groundwater samples were analyzed for the analytical suite proposed in the Plan.
- The borings were backfilled using hydrated bentonite.
- A hand held GPS unit was used to survey the position of the borings after completion.

Due to extremely dry and loose sand encountered near the ground surface of certain boring locations, the borehole of the direct push boring would cave in as soon as excavated. These conditions required that the field methodology be modified from the original Plan to collect the necessary lithologic information in these investigation areas. The following alternate methodology for soil logging and groundwater sample collection was proposed and conducted:

- Conducted hollow stem auger (HSA) drilling at locations AP-1, EP-3, FP-3, and CT-1. The soil lithology was logged from soil cuttings and from split spoon drive samples attempted at 5 feet depth intervals. The depth to groundwater was observed during drilling. The depth to groundwater and lithology for these borings was used to interpolate the conditions at the remaining drilling locations.
- Once the depth to water was reached in the HSA borehole, the auger was advanced approximately 2-3 feet into the saturated soil and retracted, and a disposable 3/4-inch diameter PVC temporary well was installed at the base of the borehole through the stem of the HSA, in borings AP-1, EP-3, FP-3, and CT-1. A groundwater sample was collected using a peristaltic pump and disposable tubing.
- The remaining locations were completed using direct push drilling rods equipped with the Hydropunch tool. The direct push rods were driven approximately 2-3 feet below the depth to groundwater observed in nearby HSA borings and a groundwater sample was collected using the Hydropunch sampling tool.
- The soil cuttings from HSA borings were temporarily stockpiled at the drilling sites on plastic sheeting and covered at the end of work, pending waste profile sample results.

The RWQCB approved the modified field procedures in a message dated January 8, 2015.

Additionally, the RWQCB indicated that based on their review of the Facility Waste Generation and Discharge Systems Report (CGR, 2014), an additional boring would be required in the vicinity of the cooling towers that discharge to ground surface. As such, Geosyntec included a boring near the cooling towers to address this requirement from the

RWQCB. The boring labeled CT-1 (Figure 2) was completed directly adjacent to the cooling tower discharge location.

2.3 Waste Water Stream Sampling

CGR performed grab sampling of the water discharge streams in the northern and southern bottling plants during cycles of production and during sanitation, as well as sampling at the point of discharge to the FP, and the EP. Samples were collected in laboratory supplied bottles. The samples were collected and stored immediately on wet ice, and delivered overnight to Eurofins Eaton Analytical, in Monrovia, California.

2.4 Project Derived Waste

Soil cuttings were temporarily placed on and covered with plastic sheeting, and decontamination waste water was placed in DOT approved 55-gallon drums and temporarily stored on-site pending waste profiling. The soil cuttings and decontamination water drums will be temporarily staged at the Site pending completion of the groundwater monitoring well installations scheduled for the first quarter 2015. Disposal will be conducted following completion of the Phase 2 groundwater monitoring well installation work.

3.0 INVESTIGATION RESULTS

The following section presents the results of the Phase 1 Site groundwater investigation. Sampling locations are shown on **Figure 2**. The results of selected metals detections are shown on **Figure 3**. A summary of the total depth, the estimated depth to static water, and general water quality parameters collected in each location is presented in **Table 1**. A summary of the detected metals results is presented in **Table 2**, the inorganic compounds, general minerals and total organic halides results are presented in **Table 3**, the detected volatile organic compounds (VOCs) is presented in **Table 4**, and the total coliform bacteria results is presented in **Table 5**. The following sections describe the soil lithology, field groundwater observations, and the laboratory analytical results.

3.1 Soil Lithology

In general, the soils encountered consisted of olive brown, fine- to coarse-grained, interbedded poorly and well graded sands and fine- to medium-grained silty sand from ground surface to between 10 and 19 ft bgs. These sands are generally underlain by thinly bedded, olive brown, low plasticity, firm, sandy clay with fine-grained sand.

In general the soil sequence showed a fining downward sequence and the clay lenses are interpreted as lacustrine deposits interbedded with sequences of coarser-grained alluvial sand. Additionally, it appears that the clay strata are more abundant on the east side of the investigation area, and are coarser-grained to the west side of the investigation area. This distribution is consistent with an interpretation that soils will fine laterally toward Owens Lake. Soil boring logs are presented as **Appendix A**.

3.2 Field Groundwater Observations

Table 1 presents depth to groundwater measurements and water quality parameters measured in the field at the time of sampling. During drilling, the depth to groundwater was encountered in the investigation borings at depths ranging from 3.3 to 18.8 ft bgs. Groundwater was encountered at shallower depths in borings located in the eastern portion of the investigation area than in the western portion of the investigation area.

The water quality parameters measured in the field included temperature, conductivity, total dissolved solids (TDS), oxidation-reduction potential, dissolved oxygen, pH, and residual chlorine. The water quality parameters were generally indicative of fresh water. The exception was elevated readings of conductivity and TDS at boring locations AP-1 and AP3. Residual chlorine was tested in the field with a hand held instrument. The groundwater grab samples were very turbid with high amounts of fine-grained suspended solids. This caused interference with the residual chlorine analyzer in the field and the results should be considered as estimates.

3.3 Laboratory Analytical Results

3.4 Groundwater Samples

The laboratory analytical results are summarized on **Tables 2 through 5**. The laboratory analytical reports for the groundwater and waste water samples are included in **Appendix B**. The following metals were detected above the laboratory minimum reporting limit (MRL) in one or more groundwater samples collected:

- Arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, magnesium, molybdenum, nickel, silver, thallium, vanadium, and zinc.

The following inorganic and general minerals constituents were detected above the laboratory MRL in one or more groundwater samples collected:

- Alkalinity (bicarbonate), ammonia, calcium, calcium carbonate, carbon disulfide, chloride, residual chlorine, nitrate as nitrogen, nitrite as nitrogen, total nitrogen, orthophosphate, phosphorus, sodium, sulfate, and total dissolved solids (TDS).

Additionally, total coliform was detected above the MRL in samples collected from borings EP-2 and EP-3. Benzene, styrene and toluene were detected at estimated concentrations above the laboratory MRL, in the groundwater sample collected from the AP-2 location (see Section 3.4 below for data validation discussion).

3.4.1 Waste Water Discharge Samples

The laboratory analytical results are summarized on **Table 2**. The following metals were detected above the laboratory MRL in one or more waste water samples collected:

- Antimony, Arsenic, barium, cadmium, chromium, copper, lead, magnesium, molybdenum, nickel, vanadium, and zinc.

The following inorganic and general minerals compounds were detected above the laboratory MRL in one or more groundwater samples collected:

- Alkalinity (bicarbonate), biochemical oxygen demand, calcium, calcium carbonate, chemical oxygen demand, chloride, residual chlorine, nitrate as nitrogen, total Kjeldahl nitrogen, orthophosphate, phosphorus, sodium, sulfate, surfactants, TDS, and total organic halides.

VOCs detected included a low detection of 2-butanone (5.6 micrograms per liter ($\mu\text{g/L}$)) collected from the southern bottling plant waste water during a sanitation cycle, and cis-1,3-dichloropropene (0.53 $\mu\text{g/L}$) was detected at a low concentration from the sample collected from the standing water in the AP.

Total coliform bacteria was detected above the MRL in the samples collected from the northern and southern bottling plants during sanitation cycle, and samples collected directly from the EP and FP.

3.5 Data Validation

The data were validated at a United States Environmental Protection Agency (EPA) Stage 2A data validation level. Based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the exceptions of rejected data. Further summary of the data validation results is presented in **Appendix C**. Qualified data should be used within the limitations of the qualification. The following qualifications were identified based on the Stage 2A data validation:

- The dissolved oxygen, pH, free residual chlorine and total residual chlorine analyses were performed outside the 15 minute holding times, by more than twice the holding times. No qualifications were applied to the pH data based on technical and professional judgment. However, the non-detect free chlorine residual and total chlorine residual values in the associated samples were “R” qualified as rejected and the detected concentrations were “J” qualified as estimated.
- The results reported for Standard Methods 9223B were analyzed outside the 8-hour holding time, by more than twice the holding time. Therefore, the detected concentrations were “J” qualified as estimated and the non-detect values were “R” qualified as rejected.
- The analyses of several VOCs in samples AP-2-20150107 and AP-2-20150107-DUP were from sample aliquots (containers) that had pH unit measurement of 2. Therefore, because these analyses were 2 days past the 7 day holding time for unpreserved samples, the detections were “J” qualified as estimated and the undetected values were “UJ” qualified as estimated less than the method reporting limits (MRLs).
- The TOX analyses of samples OL3P was outside the Standard Method 5320 holding time (14 days), but within the EPA Method 9020 holding time (28 days); both methods were listed as the methods used for the analyses. Based on professional and technical judgment, the samples were qualified based on the shorter holding time; therefore, the nondetect values were “UJ” qualified as estimated less than the MRL and the detect concentrations were “J” qualified as estimated.

- The nitrate and nitrite analyses of sample AP-2-20150107 were several hours outside the 48-hour holding time. Therefore, the undetected value of nitrite was “UJ” qualified as estimated less than the MRL and the concentration of nitrate was “J” qualified as estimated.
- Both total and dissolved metals were reported for the samples. The total metals concentrations were greater than or equal to the dissolved metals concentrations, with the following exceptions.
 - Dissolved vanadium was detected above the MRL and total vanadium was not detected above the MRL in sample PP INLET. Therefore, the detected concentration of dissolved vanadium was “J” qualified as estimated and the undetected value of total vanadium was “UJ” qualified as estimated less than the MRL.
 - Dissolved molybdenum was detected above the MRL and total molybdenum was not detected above the MRL in samples AP-1-20150105 and FP-3-20150106. Therefore, the detected concentrations of dissolved molybdenum were “J” qualified as estimated and the undetected value of total molybdenum were “UJ” qualified as estimated less than the MRL.
 - Dissolved antimony was detected above the MRL and total antimony was not detected above the MRL in sample FP-3-20150106. Therefore, the detected concentration of dissolved antimony was “J” qualified as estimated and the undetected value of total antimony was “UJ” qualified as estimated less than the MRL.
 - Dissolved molybdenum was detected at a concentration greater than the total molybdenum concentration in samples FP-2-20150107, AP-3-20150108, CT-1-20150108, EP-2-20150108 and FP-1-20150107; the percent difference between the results were 134%, 67%, 85%, 136% and 131%, respectively. Therefore, the concentrations of total and dissolved molybdenum in samples FP-2-20150107, AP-3-20150108, CT-1-20150108 and EP-2-20150108 were J qualified as estimated.

4.0 DATA EVALUATION

The following sections present a discussion of the groundwater and waste water sample results.

4.1 Groundwater Samples

The groundwater sample analytical results were compared to California Environmental Protection Agency's (CalEPA) Maximum Contaminant Levels (MCL). The following constituents were detected in one or more samples collected at concentrations exceeding their respective primary or secondary MCLs:

- Total and dissolved arsenic, total barium, total beryllium, total cadmium, total chromium, total lead, total nickel, and total thallium.
- Benzene was detected in the sample collected from AP-2 at a concentration slightly above the MCL of 1 micrograms per liter ($\mu\text{g/L}$).
- TDS and sulfate was detected at concentrations exceeding the secondary MCL of 1,000 and 500 milligrams per liter (mg/L), respectively in borings AP-1 for TDS and sulfate, and in AP-2 for TDS.

Detections of benzene that slightly exceeded the MCL were found at an estimated concentration in the sample from AP-2. The source of this VOC is unknown as no VOCs are used at the facility that would come into contact with discharge water. It is likely that the presence of the benzene in this sample is either a field or lab cross contamination issue. The detections of the VOCs in the sample collected from AP-2 were qualified based on an exceedance of the hold time and inadequate sample preservation. These qualified detections of VOCs should be considered as estimated concentrations.

Elevated detections of total coliform bacteria were detected in samples collected from EP-2 and EP-3. The source of these detections is not known, but are not believed to be associated with facility operation. As noted in the Facility Waste Generation and Discharge Systems Report the sewage wastes at the Site are managed in a fully contained sewage system which is not connected to drain lines that discharge to the ground surface. It is possible that the total coliform detected in these samples is from historical livestock activities on Site such as cows or horses that pasture in this area, or from indigenous wildlife in the area.

Based on the laboratory analytical results, the main constituents of concern are metals. In particular, total arsenic was detected in all the groundwater samples collected at concentrations exceeding the MCL of $10 \mu\text{g/L}$. However, it is important to note that

elevated dissolved arsenic (approximately 16 to 28 µg/L [1]) is known to be a naturally occurring element in the deep unconfined aquifer beneath the Site based on regular water quality sampling conducted at the Site production wells. The spring water production wells are located west of the spring line fault and are typically installed with screen interval between approximately 70 to 85 feet below ground surface within the coarse grained alluvial sediments beneath the Site.

Additionally, dissolved arsenic has been detected in the shallow groundwater at Owens Lake at concentrations ranging from 0.1 to 150 mg/L (Reid J.S, et.al 1994, and Ryu, J-H. et. al 2002). These results indicate that arsenic in groundwater found east of the Site has been detected at significantly higher concentrations than any of the Phase 1 groundwater samples.

At locations AP-2, AP-3 and FP-3, the dissolved arsenic concentrations also exceeded the MCL. Dissolved molybdenum and vanadium were detected in the sample collected from AP-2, but there is no MCL established for these metals.

With respect to the total metals that exceeded their respective MCLs, the detections of corresponding dissolved metals concentrations were much lower or not detected above the laboratory MRL. Detections of dissolved arsenic exceeded the MCL at locations AP-2, AP-3 and FP-3, but other dissolved metals detections were either below the MCL or not detected above the laboratory MRL.

It is further important to note that the groundwater samples collected all had very high turbidity. Based on the low to non-detect concentrations of nearly all the dissolved metals, it is presumed that most of the elevated total metals detected were related to suspended sediment in the samples.

Additionally, the fine-grained sediments that are found interlayered with coarser alluvial sediments are interpreted as lacustrine or lake bed deposits of silts and clays with very fine-grained sand. The borings completed in the eastern portion of the facility encountered proportionally more of these fine-grained deposits. It is likely that the lacustrine deposits have naturally occurring metals concentrations adsorbed onto them. For example, the elevated detections of barium, which can be found naturally occurring in similar lacustrine deposits, are likely associated with this sediment.

The only potential data of concern relates to elevated concentrations of total and dissolved arsenic found in boring AP-2 (i.e. 3,500 and 3,600 µg/L, respectively). However, the concentrations of total and dissolved arsenic found in boring AP-3 (i.e. 93 and 16 µg/L, respectively), located approximately 300 feet directly down gradient of boring AP-2, decrease by orders of magnitude indicating that any potential impacts are limited in this

^[1] Range of arsenic concentrations based on annual sample results in 2012 and 2013 from production wells CGR-1, CGR-3, CGR-5, CGR-6, and CGR-7.

area. The concentrations of total and dissolved arsenic in AP-3 were found at the estimated background concentrations for the Site.

4.2 Waste Water Samples

The waste water sample results were compared to CalEPA MCLs. Antimony, arsenic, and cadmium were detected at concentrations exceeding their respective MCLs, and sulfate and TDS were detected at levels exceeding their respective secondary MCLs in the sample collected from the standing water of the AP. Additionally, concentrations of molybdenum and vanadium were also detected in the sample collected from the AP, although there are no MCLs established for these metals. Arsenic was detected above the MCL in the samples collected from the northern bottling plant waste water during a sanitation cycle and from the point of discharge to the EP. The detections of arsenic in these samples are within the range of arsenic detected in the production wells at naturally occurring background concentrations.

In general, the results of waste water samples collected from the northern and southern bottling plants during normal production, during a sanitation cycle, and waste water samples collected at the point of discharge to the FP and EP, indicate that the waste water discharged is generally similar in composition to production spring water.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase 1 Site investigation was conducted to evaluate the groundwater conditions using screening level tools in the areas around the AP, the EP, and the FP, as well as near the cooling tower on the north side of the northern bottling facility. The Phase 1 investigation was intended to gather screening level data in order to better evaluate groundwater quality conditions and identify appropriate locations for groundwater monitoring wells.

The results of the Phase 1 investigation indicate that the primary constituents of concern in the groundwater in the investigation areas of the AP, EP, and FP, are metals. Additionally, elevated concentrations of sulfate and TDS were also detected at concentrations exceeding their secondary MCLs in borings adjacent to the AP. Significant differences between the elevated concentrations of total metals and the generally corresponding low to not detected dissolved metals concentrations indicate that the suspended sediment in the groundwater samples significantly contributed to the elevated detections in the total metals results.

An exception is the total and dissolved arsenic concentrations from AP-2 which are similar in concentration and are elevated, suggesting arsenic impacts to groundwater in the isolated area immediately adjacent to the AP. The extent of the potential impact to groundwater in this area appears limited based on results in AP-3 located down gradient. Additionally, based on the groundwater data collected, it appears that any potential impacts to the groundwater, if present, have not migrated off the Site property and should not impact neighboring water users or domestic wells.

Comparison of the low to non-detected concentrations of key metals of concern in the waste water samples to the groundwater sample results, indicates that the metals detected in groundwater samples near the EP and FP are likely not attributed to waste water discharges at the Site. As indicated in previous sections, the total metals concentrations in the groundwater samples were likely the result of very high suspended sediment in the samples collected, and may be representative of naturally occurring background metals concentrations in the soil at the Site. The exception to this was at the AP, where the total and dissolved arsenic concentrations were elevated in samples collected directly immediately down-gradient from the AP.

Based on the data collected during the Phase 1 preliminary Site groundwater investigation, installation of groundwater monitoring wells is recommended for the areas surrounding the arsenic pond, east pond, and fire pond, to verify the Phase 1 screening data. A total of seven shallow groundwater monitoring wells are proposed for Phase 2 of the Site groundwater investigation. The locations of the proposed groundwater monitoring wells are shown on **Figure 4**.

The wells are proposed to be installed as 2-inch diameter Schedule 40 PVC, and approximately 15 feet of 0.010-inch screen material. The well screens will be installed with approximately five feet of screen above the water table and 10 feet below the water table. Final well construction details will be determined based on field conditions.

Additionally, based on the laboratory analytical results of the Phase 1 samples, the analytical schedule for future groundwater sampling is proposed to be reduced to:

- Total and dissolved CAM 17 metals,
- General minerals including sodium, calcium, magnesium, chloride, bicarbonate, sulfate, and total dissolved solids; and
- Benzene.

6.0 SCHEDULE

It is assumed that following a review and comment of this report by the RWQCB, the the Phase 2 well installation work can be scheduled within approximately 2-3 weeks pending drilling subcontractor availability. The well installation, development, and sampling will take approximately 2-3 weeks to complete, and laboratory reports will be received approximately 15 working days following receipt. The results of the Phase 2 Site groundwater investigation will be presented in a summary report to the RWQCB within 30 days of receipt of the laboratory analytical reports.

7.0 REFERENCES

- CGR 2014, Facility Waste Generation and Discharge Systems Report, Prepared by CG Roxane, LLC, 1210 South U.S. Highway 395, Olancho, California, October 21, 2014.
- Geosyntec 2014, Site Investigation Workplan, Olancho Spring Water Bottling Facility, 1210 South U.S. Highway 395, Olancho, California, October 17, 2014.
- Reid, J. S. et al., 1994, Local Meteorological, Transport, and Source Aerosol Characteristics of Late Autumn Owens Lake (dry) Dust Storms: Atmospheric Environment, v. 28, p. 1699-1706.
- Ryu J-H, et al., 2002, Arsenic Distribution, Speciation, and Solubility in Shallow Groundwater of Owens Dry Lake, California, *Geochimica et Cosmochimica Acta*, Vol. 66, No. 17, pp. 2981-2994, March 2002.

TABLES

Table 1
 Field Groundwater Parameters
 Crystal Geyser Roxane
 Olancho, CA

Boring ID	Depth to Water (feet bgs)	Temperature (°C)	Conductivity (µS/cm)	TDS (ppm)	ORP (mv)	DO (mg/L)	pH	Residual Cl ₂ mg/l
AP-1	8.8	14.1	1106	760	156	1.02	8.22	**
AP-2	7.3	17.6	14	12	143	0.87	7.93	**
AP-3	3.3	11.2	1169	803	147	0.88	8.24	1.41
EP-1	7.9	9.1	466	310	147	0.93	8.29	0.99
EP-2	6.7	11.9	365	238	145	0.91	8.28	0.81
EP-3	7.2	11.4	356	233	161	1.04	8.15	**
FP-1	18.8	17.0	30	189	147	1.12	8.01	0.39
FP-2	18.7	16.2	591	391	148	1.07	8.17	**
FP-3	14.7	17.0	283	178	168	0.95	7.92	**
FP-4	12.1	12.4	223	142	149	0.73	8.20	**
CT-1	13.7	18.7	149	92	145	1.06	8.17	**

Notes:

bgs: below ground surface

TDS: Total Dissolved Solids

ORP: Oxidation reduction potential

DO: Dissolved oxygen

Cl₂: Residual chlorine

µS/cm: microsiemens per centimeter

°C: degrees centigrade

ppm: parts per million

mv: millivolts

mg/L: milligrams per liter

** : Residual Cl₂ field measurements are estimated due to interference caused by turbid water samples.

Table 2
Detected Metals Results
Crystal Geyser Roxane
Olancha, CA

Sample Location	Date Sampled	Sample ID	Antimony (dissolved) µg/l	Antimony µg/l	Arsenic (dissolved) µg/l	Arsenic µg/l	Barium (dissolved) µg/l	Barium µg/l	Beryllium µg/l	Cadmium (dissolved) µg/l	Cadmium µg/l	Chromium (dissolved) µg/l	Chromium µg/l	Cobalt µg/l	Copper (dissolved) µg/l	Copper µg/l	Lead (dissolved) µg/l	Lead µg/l	Magnesium mg/l	Molybdenum (dissolved) µg/l	Molybdenum µg/l	Nickel (dissolved) µg/l	Nickel µg/l	Silver µg/l	Thallium µg/l	Vanadium (dissolved) µg/l	Vanadium µg/l	Zinc (dissolved) µg/l	Zinc µg/l
AP-1	2015-01-05	AP-1-20150105	ND < 1.0	1.0	3.0	61	120	170	7.6	ND < 0.50	3.2	ND < 1.0	23	40	ND < 2.0	6.8	ND < 0.50	1.4	330	3.0 J	ND < 2.0 J	ND < 5.0	80	ND < 0.50	ND < 1.0	ND < 3.0	8.6	ND < 20	110
AP-2	2015-01-07	AP-2-20150107	ND < 1.0	2.0 J	3,600	3,500	ND < 2.0	150 J	ND < 1.0	ND < 0.50	10	ND < 1.0	50 J	9.0 J	38	55 J	ND < 0.50	37 J	14 J	2,200	2,100	ND < 5.0	8.0	ND < 0.50	ND < 1.0	1,700	1,900	ND < 20	86 J
AP-2	2015-01-07	AP-2-20150107-DUP	ND < 1.0	4.8 J	3,700	3,500	ND < 2.0	38 J	ND < 1.0	ND < 0.50	11	ND < 1.0	9.8 J	2.3 J	35	36 J	ND < 0.50	10 J	3.4 J	2,200	2,200	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	1,800	1,900	ND < 20	28 J
AP-3	2015-01-08	AP-3-20150108	ND < 1.0	1.2	16	93	42	1,400	1.9	ND < 0.50	0.82	ND < 1.0	58	35	ND < 2.0	170	ND < 0.50	41	57	65 J	39 J	ND < 5.0	36	ND < 0.50	1.6	ND < 3.0	190	ND < 20	450
CT-1	2015-01-08	CT-1-20150108	ND < 1.0	ND < 1.0	1.7	50	33	950	2.3	ND < 0.50	ND < 0.50	ND < 1.0	70	34	ND < 2.0	82	ND < 0.50	34	29	24 J	13 J	ND < 5.0	20	ND < 0.50	ND < 1.0	ND < 3.0	140	ND < 20	400
EP-1	2015-01-08	EP-1-20150108	ND < 1.0	1.6	12	28 J+	3.3	230	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	18	7.5	ND < 2.0	42	ND < 0.50	13	37	7.8	9.2	ND < 5.0	12	ND < 0.50	ND < 1.0	ND < 3.0	35	ND < 20	100
EP-2	2015-01-08	EP-2-20150108	ND < 1.0	ND < 1.0	10	150	5.4	6,300	2.9	ND < 0.50	2.6	ND < 1.0	120	64	6.6	310	ND < 0.50	160	600	5.9 J	2.5 J	ND < 5.0	100	0.99	3.1	ND < 3.0	120	ND < 20	740
EP-3	2015-01-06	EP-3-20150106	1.1	1.9	10	55	2.6	560	ND < 1.0	ND < 0.50	0.69	ND < 1.0	58	16	11	110	ND < 0.50	32	74	9.9	9.7	ND < 5.0	28	ND < 0.50	ND < 1.0	ND < 3.0	73	ND < 20	280
FP-1	2015-01-07	FP-1-20150107	ND < 1.0	ND < 1.0	5.6	69	40	860	2.0	ND < 0.50	ND < 0.50	ND < 1.0	54	33	ND < 2.0	140	ND < 0.50	42	41	30 J	13 J	ND < 5.0	28	ND < 0.50	1.9	ND < 3.0	270	ND < 20	420
FP-2	2015-01-07	FP-2-20150107	ND < 1.0	ND < 1.0	ND < 1.0	53	50	1,500	3.1	ND < 0.50	0.78	ND < 1.0	530	36	ND < 2.0	110	ND < 0.50	48	21	150 J	64 J	ND < 5.0	46	0.56	2.2	ND < 3.0	180	ND < 20	630
FP-3	2015-01-06	FP-3-20150106	1.0 J	ND < 1.0 J	19	44	57	320	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	1.0	4.3	ND < 2.0	5.8	ND < 0.50	5.8	24	11 J	ND < 2.0 J	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	27	ND < 20	72
FP-4	2015-01-07	FP-4-20150107	ND < 1.0	ND < 1.0	ND < 1.0	98	38	6,700	14	ND < 0.50	1.7	ND < 1.0	810	170	ND < 2.0	550	ND < 0.50	290	420	3.5	6.3	ND < 5.0	120	3.5	7.8	ND < 3.0	920	ND < 20	4,400
Olancha North Waste Water During Production	2014-08-18	OL3P	1.6	1.8	2.8	3.6	5.4	6.3	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	ND < 1.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 0.50	ND < 0.50	2.0	7.1	6.8	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	ND < 3.0	ND < 20	ND < 20
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	ND < 1.0	ND < 1.0	12	17	9.3	10	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	2.0	ND < 2.0	14	16	ND < 0.50	ND < 0.50	1.9	3.7 J	5.2	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	ND < 3.0	33	41
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	ND < 1.0	1.1	ND < 1.0	3.0	ND < 2.0	55	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	1.4	ND < 2.0	ND < 2.0	21	ND < 0.50	ND < 0.50	1.4	ND < 2.0	ND < 2.0	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	4.0	ND < 20	41
East Pond, Point of Discharge during Production	2014-08-27	PP INLET	1.0	1.1	18	17	7.4	7.3	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	ND < 1.0	ND < 2.0	16	20	ND < 0.50	ND < 0.50	1.7	6.3	7.5	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	3.0 J	ND < 3.0 J	ND < 20	22
Fire Pond, Overflow	2014-09-03	FP Outlet	ND < 1.0	ND < 1.0	ND < 1.0	ND < 1.0	8.0	8.2	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	ND < 1.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 0.50	ND < 0.50	1.3	ND < 2.0	ND < 2.0	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	ND < 3.0	ND < 20	ND < 20
Arsenic Pond, Standing Water	2014-12-15	EVAP POND	41	46	26,000	23,000	ND < 2.0	26	ND < 1.0	36	41	26	26	ND < 2.0	56	120	ND < 0.50	6.5	ND < 0.10	13,000	13,000	ND < 5.0	71	ND < 0.50	ND < 1.0	11,000	10,000	ND < 20	ND < 20
East Pond, Standing Water	2014-12-11	East Pond	ND < 1.0	ND < 1.0	9.9	10	9.6	10	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	ND < 1.0	ND < 2.0	6.8	8.1	ND < 0.50	ND < 0.50	2.2	4.5 J	4.9	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	ND < 3.0	20	25
Fire Pond, Standing Water	2014-12-11	Fire Pond	ND < 1.0	ND < 1.0	2.6 J	1.4 J	17	15	ND < 1.0	ND < 0.50	ND < 0.50	ND < 1.0	ND < 1.0	ND < 2.0	ND < 2.0	ND < 2.0	ND < 0.50	ND < 0.50	1.6	ND < 2.0 R	ND < 2.0	ND < 5.0	ND < 5.0	ND < 0.50	ND < 1.0	ND < 3.0	ND < 3.0	ND < 20	ND < 20
Screening Level - 2011 Cal EPA MCL			6.0	6.0	10	10	1,000	1,000	4.0	5.0	5.0	50	50	NE	1,300	1,300	15	15	NE	NE	NE	100	100	NE	2.0	NE	NE	NE	NE

Notes:
Samples analyzed by Eurofins Eaton Analytical in Monrovia, CA.
Shaded cells indicate detection exceeds the primary California Environmental Protection Agency's Maximum Contaminant Level.
EP Inlet: East Pond point of discharge
FP Inlet: Fire Pond point of discharge
NE: A Maximum Contaminant Level has not been established for this element.
µg/l: micrograms per liter
mg/l: milligrams per liter
J: Estimated concentration. The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+: Estimated concentration. The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
ND < : Analyte not detected above the laboratory minimum reporting limit shown.

Table 3
Inorganic Compounds, General Minerals, and Total Organic Halides Results
Crystal Geyser Roxane
Olancha, CA

Location	Date Sampled	Sample ID	Alkalinity, Bicarbonate mg/l	Ammonia Nitrogen mg/l	Biochemical Oxygen Demand mg/l	Calcium Carbonate mg/l	Calcium mg/l	Carbon Disulfide µg/l	Chemical Oxygen Demand mg/l	Chloride mg/l	Chlorine, Free Residual mg/l	Chlorine, Total Residual mg/l	Dissolved Oxygen mg/l	Nitrate (as N) mg/l	Nitrite (as N) mg/l	Nitrogen, Total (Calculated) mg/l	Nitrogen, Total Kjeldahl mg/l	Nitrogen mg/l
AP-1	2015-01-05	AP-1-20150105	5.3	0.66	NA	4.3	580	ND < 0.50	NA	4.3	0.14 J	ND < 0.10 R	NA	ND < 0.050	ND < 0.050	0.51	NA	0.51
AP-2	2015-01-07	AP-2-20150107	170	0.60 J	NA	6,200	17 J	ND < 0.50	NA	52	ND < 0.10 R	ND < 0.10 R	NA	0.98 J	ND < 0.013 J	3.6	NA	2.6
AP-2	2015-01-07	AP-2-20150107-DUP	170	0.32 J	NA	6,200	5.3 J	ND < 0.50	NA	52	ND < 0.10 R	ND < 0.10 R	NA	0.69 J	ND < 0.013	3.0	NA	2.3
AP-3	2015-01-08	AP-3-20150108	240	0.14	NA	200	450	ND < 0.50	NA	180	ND < 0.10 R	ND < 0.10 R	NA	ND < 0.050	ND < 0.050	1.6	NA	1.6
CT-1	2015-01-08	CT-1-20150108	92	0.28	NA	76	51	ND < 0.50	NA	ND < 1.0	ND < 0.10 R	0.11 J	NA	0.18	ND < 0.050	1.4	NA	1.2
EP-1	2015-01-08	EP-1-20150108	290	0.072	NA	240	160	ND < 0.50	NA	45	ND < 0.10 R	ND < 0.10 R	NA	ND < 0.10	ND < 0.050	0.60	NA	0.60
EP-2	2015-01-08	EP-2-20150108	170	ND < 0.050	NA	140	3,000	ND < 0.50	NA	20	ND < 0.10 R	ND < 0.10 R	NA	0.25	ND < 0.050	0.75	NA	0.50
EP-3	2015-01-06	EP-3-20150106	200	ND < 0.050	NA	160	480	ND < 0.50	NA	14	ND < 0.10 R	ND < 0.10 R	NA	0.23	ND < 0.050	1.1	NA	0.90
FP-1	2015-01-07	FP-1-20150107	130	0.23	NA	110	58	ND < 0.50	NA	3.2	ND < 0.10 R	ND < 0.10 R	NA	0.51	ND < 0.050	1.2	NA	0.70
FP-2	2015-01-07	FP-2-20150107	140	0.36	NA	120	110	1.6	NA	8.9	ND < 0.10 R	ND < 0.10 R	NA	6.9	0.057	7.8	NA	0.88
FP-3	2015-01-06	FP-3-20150106	110	0.50	NA	88	48	ND < 0.50	NA	1.6	ND < 0.10 R	ND < 0.10 R	NA	0.32	ND < 0.050	0.92	NA	0.60
FP-4	2015-01-07	FP-4-20150107	73	0.12	NA	60	320	ND < 0.50	NA	3.3	ND < 0.10 R	0.13 J	NA	0.56	ND < 0.050	3.7	NA	3.1
Olancha North Waste Water During Production	2014-08-18	OL3P	62	ND < 0.050	3.5	51	19	NA	7.0	3.0	ND < 0.10 R	ND < 0.10 R	NA	0.83	ND < 0.050	NA	ND < 0.20	NA
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	98	ND < 0.050	12 J	80	20	ND < 0.50	57	4.9	ND < 0.10 R	ND < 0.10 R	9.0 J	0.58	ND < 0.050	1.7	1.1	NA
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	34	ND < 0.050	ND < 3.0 J	28	19	ND < 0.50	18	2.9	ND < 0.10 R	ND < 0.10 R	8.3 J	4.0	ND < 0.050	4.0	ND < 0.20	NA
East Pond Point of Discharge during Production	2014-08-27	PP INLET	120	ND < 0.050	5.0 J	98	19	NA	15	13	ND < 0.10 R	ND < 0.10 R	NA	ND < 0.10	ND < 0.050	NA	0.26	NA
Fire Pond, Overflow	2014-09-03	FP Outlet	62	ND < 0.050	ND < 3.0	65	18	NA	10	3.2	ND < 0.10 R	ND < 0.10 R	NA	ND < 0.10	ND < 0.050	NA	0.31	NA
Arsenic Pond, Standing Water	2014-12-15	EVAP POND	22,000	ND < 0.050	4.3 J	18,000	ND < 1.0	ND < 0.50	400	13,000	0.10 J	0.10 J	2.2 J	ND < 0.013	ND < 0.013	3.0	3.0	NA
East Pond, Standing Water	2014-12-11	East Pond	98	ND < 0.050	7.8 J	80	22	ND < 0.50	12	4.5	ND < 0.10 R	ND < 0.10 R	6.9 J	0.16	ND < 0.050	0.50	0.34	NA
Fire Pond, Standing Water	2014-12-11	Fire Pond	74	ND < 0.050	ND < 3.0	66	20	ND < 0.50	ND < 5.0	3.0	ND < 0.10 R	ND < 0.10 R	11 J	ND < 0.10	ND < 0.050	0.33	0.33	NA

Table 3
Inorganic Compounds, General Minerals, and Total Organic Halides Results
Crystal Geyser Roxane
Olancha, CA

Location	Date Sampled	Sample ID	Orthophosphate as P mg/l	pH	Phosphorus, Total as P mg/l	Sodium mg/l	Specific Conductance µS/cm	Sulfate mg/l	Surfactants mg/l	Total Dissolved Solids mg/l	Total Organic Halides (Average) µg/l	Total Organic Halides (Rep 1) µg/l	Total Organic Halides (Rep 2) µg/l	Total Suspended Solids mg/l
AP-1	2015-01-05	AP-1-20150105	4.2	6.3	1.2	70	NA	580	ND < 0.050	960	NA	NA	NA	NA
AP-2	2015-01-07	AP-2-20150107	0.51	12	4.4	3,000	NA	170	ND < 0.050	7,500	NA	NA	NA	NA
AP-2	2015-01-07	AP-2-20150107-DUP	0.52	12	3.8	3,100	NA	170	ND < 0.050	7,600	NA	NA	NA	NA
AP-3	2015-01-08	AP-3-20150108	0.26	7.7	1.6	180	NA	80	ND < 0.050	820	NA	NA	NA	NA
CT-1	2015-01-08	CT-1-20150108	1.5	8.1	0.63	25	NA	3.8	ND < 0.050	160	NA	NA	NA	NA
EP-1	2015-01-08	EP-1-20150108	1.1	8.4	1.4	64	NA	31	ND < 0.050	320	NA	NA	NA	NA
EP-2	2015-01-08	EP-2-20150108	0.70	8.2	0.88	89	NA	32	ND < 0.050	320	NA	NA	NA	NA
EP-3	2015-01-06	EP-3-20150106	0.29	8.2	2.0	49	NA	34	ND < 0.050	270	NA	NA	NA	NA
FP-1	2015-01-07	FP-1-20150107	0.71 J	7.7	4.7	31	NA	30	ND < 0.050	270	NA	NA	NA	NA
FP-2	2015-01-07	FP-2-20150107	1.0	7.8	0.97	68	NA	85	ND < 0.050	760	NA	NA	NA	NA
FP-3	2015-01-06	FP-3-20150106	0.44	7.1	1.5 J	17	NA	19	ND < 0.050	330	NA	NA	NA	NA
FP-4	2015-01-07	FP-4-20150107	1.2	6.9	2.4	44	NA	38	ND < 0.050	560	NA	NA	NA	NA
Olancha North Waste Water During Production	2014-08-18	OL3P	1.7	7.5	2.0	20	210	29	NA	NA	ND < 10 J	ND < 10 J	ND < 10 J	ND < 10
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	1.2	7.4	1.9	30	250	34	ND < 0.050	180	12	12	11	ND < 10
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	14	6.6	14	24	220	37	3.7 J	170	14	13	15	ND < 10
East Pond Point of Discharge during Production	2014-08-27	PP INLET	0.15	7.6	0.34	45	330	36	NA	NA	ND < 10	ND < 10	ND < 10	ND < 10
Fire Pond, Overflow	2014-09-03	FP Outlet	0.23	9.9	0.27	25	220	28	NA	NA	ND < 10	ND < 10	ND < 10	ND < 10
Arsenic Pond, Standing Water	2014-12-15	EVAP POND	82	7.4	82	24,000	67,000 J	24,000	0.32	72,000	50 J	54 J	46 J	67
East Pond, Standing Water	2014-12-11	East Pond	0.50	7.6	0.57	29	250	29	0.18	200	14	15	13	ND < 10
Fire Pond, Standing Water	2014-12-11	Fire Pond	0.94	9.2	1.1	23	210	28	0.092	140	ND < 10	ND < 10	10	ND < 10

Notes:
Samples analyzed by Eurofins Eaton Analytical in Monrovia, CA.
µg/l: micrograms per liter
mg/l: milligrams per liter
NA: Not analyzed for this compound
ND < 0.10 R: Data not detected above minimum reporting limit shown.
"R" : The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 4
Detected Volatile Organic Compounds Results
Crystal Geyser Roxane,
Olancha, CA

Sample Location	Date Sampled	Sample ID	2-butanone (MEK) µg/l	Acetic acid, dichloro- µg/l	Acetone µg/l	Benzene µg/l	cis-1,3-Dichloropropene µg/l	Styrene µg/l	Toluene µg/l
AP-1	2015-01-05	AP-1-20150105	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
AP-2	2015-01-07	AP-2-20150107	ND < 5.0	NA	ND < 10	5.6 J	ND < 0.50	0.59	2.4 J
AP-2	2015-01-07	AP-2-20150107-DUP	ND < 5.0	NA	ND < 10	6.1 J	ND < 0.50	0.50	2.5 J
AP-3	2015-01-08	AP-3-20150108	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50 J	ND < 0.50	ND < 0.50
CT-1	2015-01-08	CT-1-20150108	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
EP-1	2015-01-08	EP-1-20150108	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
EP-2	2015-01-08	EP-2-20150108	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
EP-3	2015-01-06	EP-3-20150106	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
FP-1	2015-01-07	FP-1-20150107	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
FP-2	2015-01-07	FP-2-20150107	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
FP-3	2015-01-06	FP-3-20150106	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50 J	ND < 0.50	ND < 0.50
FP-4	2015-01-07	FP-4-20150107	ND < 5.0	NA	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	5.6	ND < 1.0	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
Olancha North Waste Water During Production	2014-08-18	OL3P	NA	ND < 1.0	NA	NA	NA	NA	NA
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	5.3	ND < 1.0	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
East Pond, Point of Discharge, Production	2014-08-27	PP INLET	NA	ND < 1.0	NA	NA	NA	NA	NA
Fire Pond, Overflow	2014-09-03	FP Outlet	NA	ND < 1.0	NA	NA	NA	NA	NA
Arsenic Pond, Standing Water	2014-12-15	EVAP POND	ND < 5.0	1.2	32	ND < 0.50	0.53	ND < 0.50	ND < 0.50
East Pond, Standing Water	2014-12-11	East Pond	ND < 5.0	ND < 1.0	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
Fire Pond, Standing Water	2014-12-11	Fire Pond	ND < 5.0	ND < 1.0	ND < 10	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50
Screening Level - 2011 Cal EPA MCL (µg/l)			NE	NE	NE	1.0	NE	100	150

Notes:

Samples analyzed by Eurofins Eaton Analytical in Monrovia, CA.

Shaded cells indicate detection exceeds the primary California Environmental Protection Agency's Maximum Contaminant Level.

EP Inlet: East Pond point of discharge

FP Inlet: Fire Pond point of discharge

NE: A Maximum Contaminant Level has not been established for this element.

NA: Not analyzed for this compound

µg/l: micrograms per liter

mg/l: milligrams per liter

J: Estimated concentration. The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+: Estimated concentration. The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

ND < : Analyte not detected above the laboratory minimum reporting limit shown.

Table 5
Total Coliform Bacteria Results
Crystal Geyser Roxane
Olancha, CA

Location	Date Sampled	Sample ID	Total Coliform MPN/100 ml
AP-1	2015-01-05	AP-1-20150105	< 100 R
AP-2	2015-01-07	AP-2-20150107	< 100 R
AP-2	2015-01-07	AP-2-20150107-DUP	< 100 R
AP-3	2015-01-08	AP-3-20150108	< 100 R
CT-1	2015-01-08	CT-1-20150108	< 100 R
EP-1	2015-01-08	EP-1-20150108	< 100 R
EP-2	2015-01-08	EP-2-20150108	100 J
EP-3	2015-01-06	EP-3-20150106	82,000 J
FP-1	2015-01-07	FP-1-20150107	< 100 R
FP-2	2015-01-07	FP-2-20150107	< 100 R
FP-3	2015-01-06	FP-3-20150106	< 100 R
FP-4	2015-01-07	FP-4-20150107	< 100 R
OL-3P	2014-08-18	OL3P	NA
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	2,420 J
Olancha North Waste Water during Sanitation	2014-12-15	East Pond San	NA
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	2,400 J
Olancha South Waste Water during Sanitation	2014-12-17	Fire Pond Sanit.	NA
East Pond, Point of Discharge, Production	2014-08-27	PP INLET	NA
Fire Pond, Overflow	2014-09-03	FP Outlet	NA
Arsenic Pond, Standing Water	2014-12-15	EVAP POND	< 1.0 R
East Pond, Standing Water	2014-12-11	East Pond	2,420 J
Fire Pond Inlet	2014-08-27	FP Inlet	NA
Fire Pond, Standing Water	2014-12-11	Fire Pond	120 J

Notes:

Samples analyzed by Eurofins Eaton Analytical in Monrovia, CA.

MPN/100 ml: Most probable number of colony forming units per 100 milliliters.

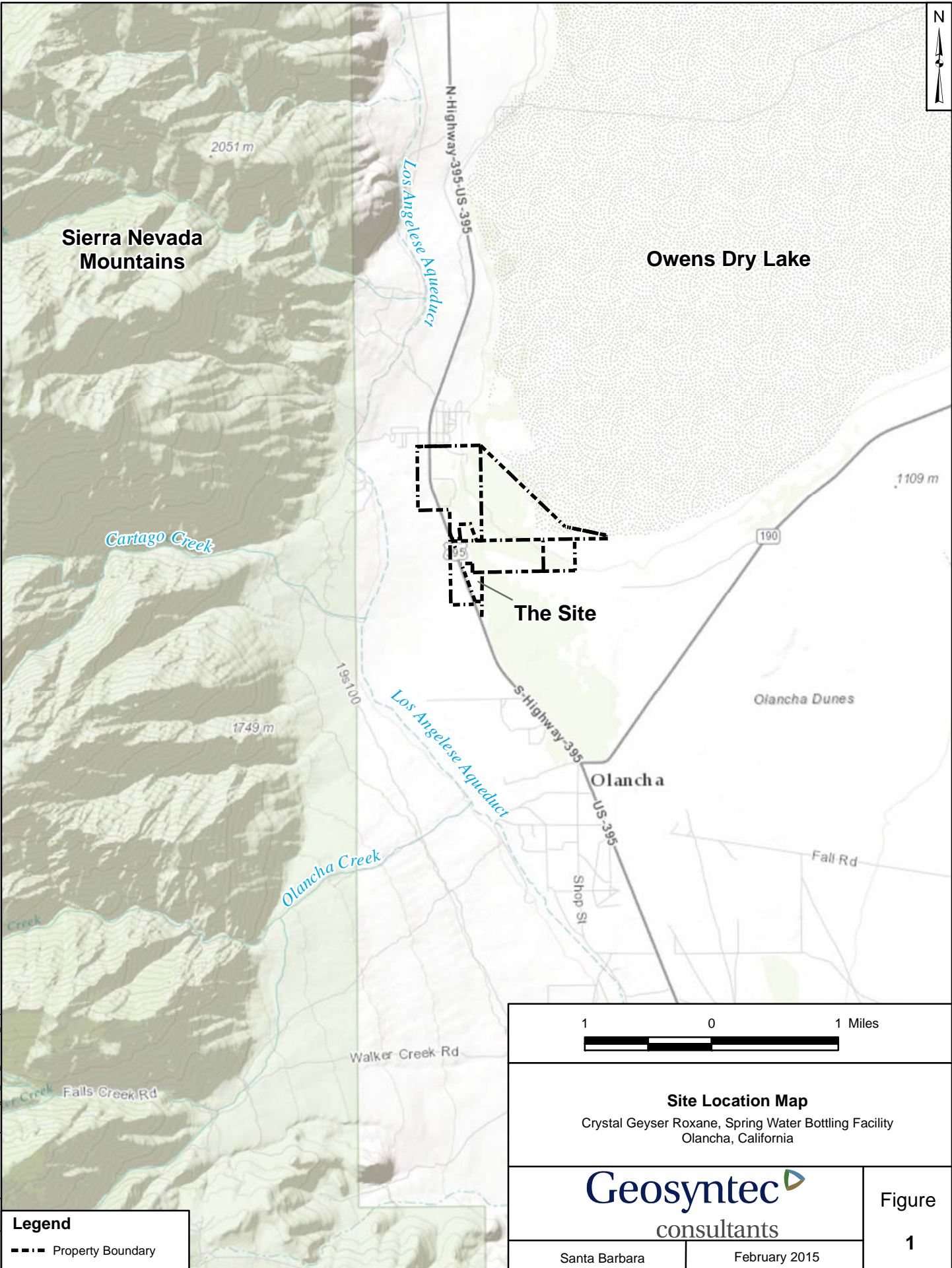
EP Inlet: East Pond point of discharge

FP Inlet: Fire Pond point of discharge

J: Estimated concentration. The analyte was positively identified; the associated numerical value is the approximate

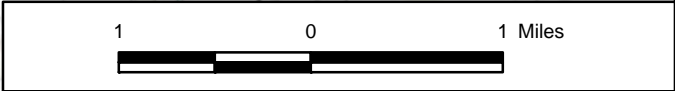
"R" : The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

FIGURES



P:\GIS\Crystal Geyser\SB0721\Projects\Fig01_Site_Location_Map.mxd STM 20150205

Legend
--- Property Boundary



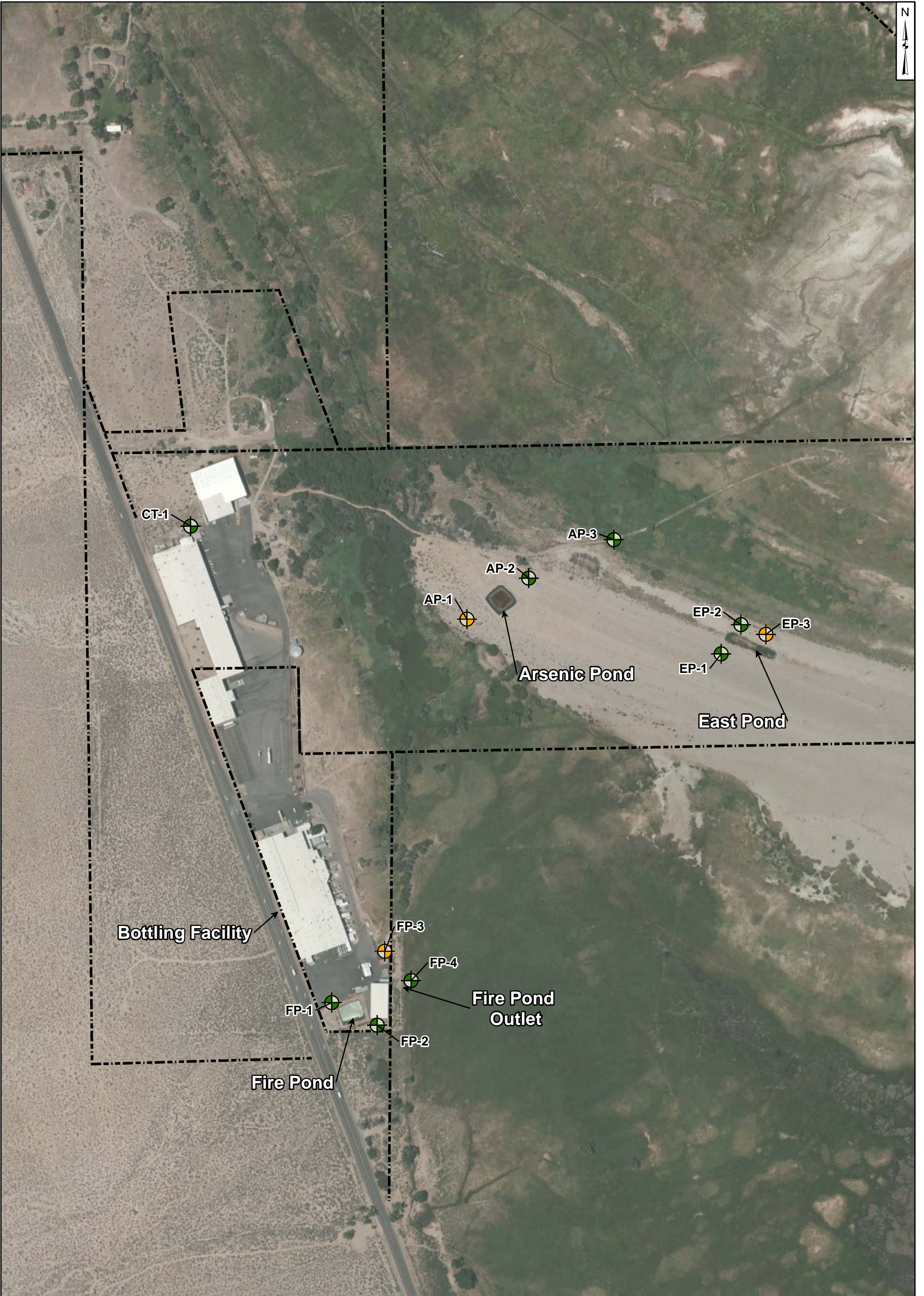
Site Location Map
 Crystal Geyser Roxane, Spring Water Bottling Facility
 Olancha, California

Geosyntec
 consultants




Figure
1

Santa Barbara

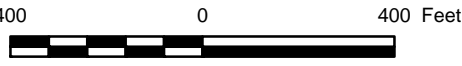

February 2015



Legend

-  Direct Push Boring
-  Hollow Stem Auger Boring
-  Parcel Boundaries

Notes:
 NAD_1983_StatePlane_California_IV_FIPS_0404_Feet
 Projection: Lambert_Conformal_Conic
 GCS_North_American_1983

	
<p>Phase 1 Boring Locations Crystal Geyser Roxane, Spring Water Bottling Facility Olancho, California</p>	
	
Santa Barbara	February 2015
<p>Figure 2</p>	

P:\GIS\Crystal Geyser\SB0721\Projects\Fig02_Ph1_Boring_Locations.mxd STM 20150205



AP-2				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	3500	3600	10
Ba	µg/L	150 J	ND	1,000
Be	µg/L	ND	ND	4
Cd	µg/L	10	ND	5
Cr	µg/L	50 J	ND	50
Ni	µg/L	8	ND	100
Pb	µg/L	37 J	ND	15
Tl	µg/L	ND	ND	2

AP-3				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	93	16	10
Ba	µg/L	1400	42	1,000
Be	µg/L	1.9	ND	4
Cd	µg/L	0.82	ND	5
Cr	µg/L	58	ND	50
Ni	µg/L	36	ND	100
Pb	µg/L	41	ND	15
Tl	µg/L	1.6	ND	2

CT-1				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	50	1.7	10
Ba	µg/L	950	33	1,000
Be	µg/L	2.3	ND	4
Cd	µg/L	ND	ND	5
Cr	µg/L	70	ND	50
Ni	µg/L	20	ND	100
Pb	µg/L	34	ND	15
Tl	µg/L	ND	ND	2

AP-1				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	61	3	10
Ba	µg/L	170	120	1,000
Be	µg/L	7.6	ND	4
Cd	µg/L	3.2	ND	5
Cr	µg/L	23	ND	50
Ni	µg/L	80	ND	100
Pb	µg/L	1.4	ND	15
Tl	µg/L	ND	ND	2

EP-2				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	150	10	10
Ba	µg/L	6300	5.4	1,000
Be	µg/L	2.9	ND	4
Cd	µg/L	2.6	ND	5
Cr	µg/L	120	ND	50
Ni	µg/L	100	ND	100
Pb	µg/L	160	ND	15
Tl	µg/L	3.1	ND	2

FP-3				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	44	19	10
Ba	µg/L	320	57	1,000
Be	µg/L	ND	ND	4
Cd	µg/L	ND	ND	5
Cr	µg/L	1	ND	50
Ni	µg/L	ND	ND	100
Pb	µg/L	5.8	ND	15
Tl	µg/L	ND	ND	2

EP-1				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	28 J+	12	10
Ba	µg/L	230	3.3	1,000
Be	µg/L	ND	ND	4
Cd	µg/L	ND	ND	5
Cr	µg/L	18	ND	50
Ni	µg/L	12	ND	100
Pb	µg/L	13	ND	15
Tl	µg/L	ND	ND	2

EP-3				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	55	10	10
Ba	µg/L	560	2.6	1,000
Be	µg/L	ND	ND	4
Cd	µg/L	0.69	ND	5
Cr	µg/L	58	ND	50
Ni	µg/L	28	ND	100
Pb	µg/L	32	ND	15
Tl	µg/L	ND	ND	2

Bottling Facility

Arsenic Pond

East Pond

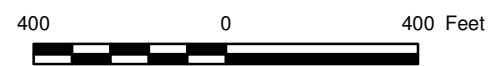
Fire Pond

Fire Pond Outlet

FP-1				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	69	5.6	10
Ba	µg/L	860	40	1,000
Be	µg/L	2	ND	4
Cd	µg/L	ND	ND	5
Cr	µg/L	54	ND	50
Ni	µg/L	28	ND	100
Pb	µg/L	42	ND	15
Tl	µg/L	1.9	ND	2

FP-2				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	53	ND	10
Ba	µg/L	1500	50	1,000
Be	µg/L	3.1	ND	4
Cd	µg/L	0.78	ND	5
Cr	µg/L	530	ND	50
Ni	µg/L	46	ND	100
Pb	µg/L	48	ND	15
Tl	µg/L	2.2	ND	2

FP-4				
Analyte	Units	Total	Dissolved	MCL
As	µg/L	98	ND	10
Ba	µg/L	6700	38	1,000
Be	µg/L	14	ND	4
Cd	µg/L	1.7	ND	5
Cr	µg/L	810	ND	50
Ni	µg/L	120	ND	100
Pb	µg/L	290	ND	15
Tl	µg/L	7.8	ND	2



- Legend**
- Direct Push Boring
 - Hollow Stem Auger Boring
 - Parcel Boundaries

Notes:
 - Gray highlighted cells exceed CalEPA Maximum Containment Level
 NAD_1983_StatePlane_California_IV_FIPS_0404_Feet
 Projection: Lambert_Conformal_Conic
 GCS_North_American_1983

Selected Metal Results
 Crystal Geyser Roxane, Spring Water Bottling Facility
 Olancho, California

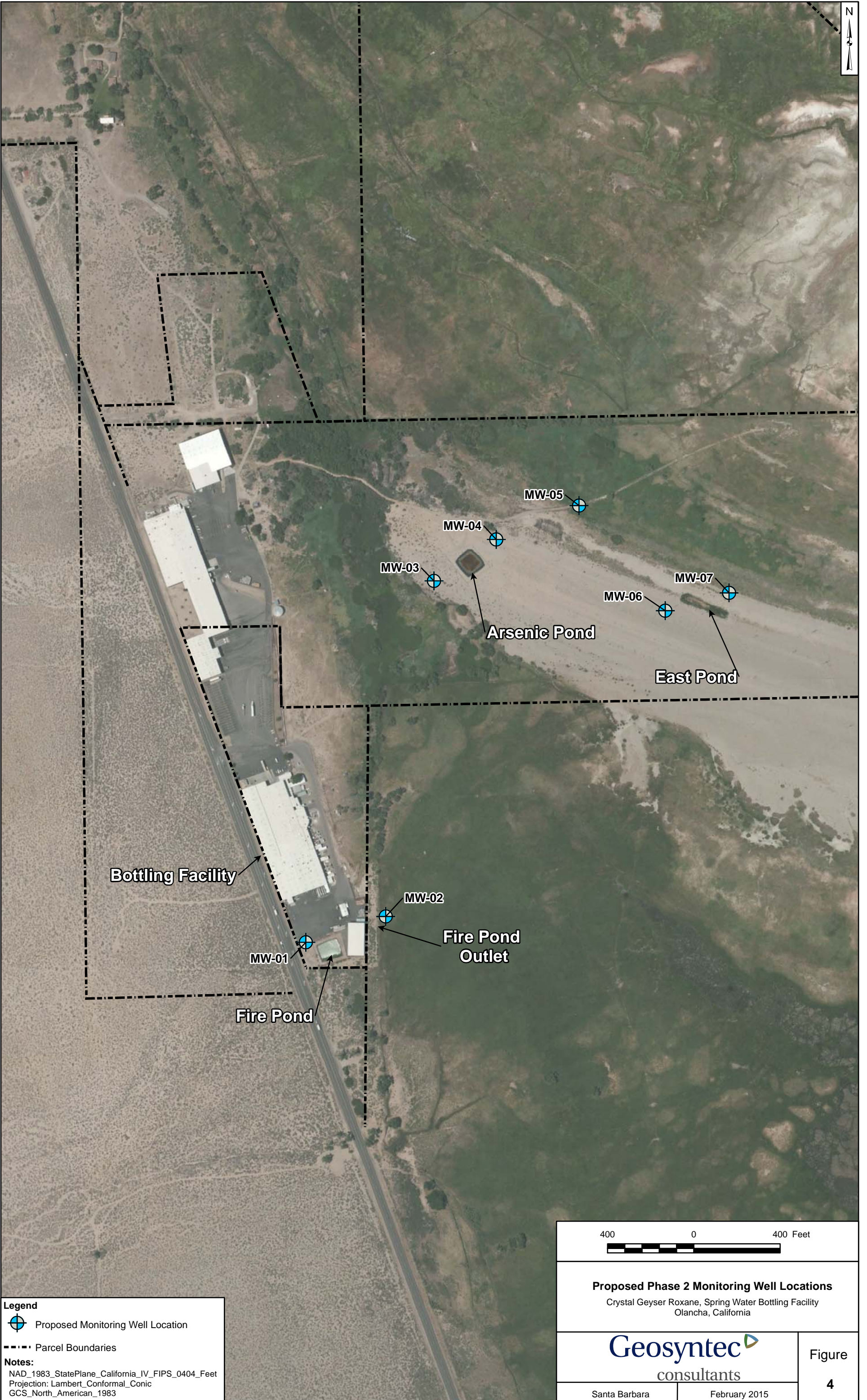


Santa Barbara

February 2015



Figure
3

P:\GIS\Crystal Geyser\SB0721\Projects\Fig03_Selected_Metals_Results.mxd STM 20150210



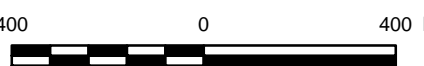

P:\GIS\Crystal Geyser\SB0721\Projects\Fig04_Proposed_Phase2_Well_Locations.mxd STM 20150216

Legend

-  Proposed Monitoring Well Location
-  Parcel Boundaries

Notes:

NAD_1983_StatePlane_California_IV_FIPS_0404_Feet
 Projection: Lambert_Conformal_Conic
 GCS_North_American_1983

	
<p>Proposed Phase 2 Monitoring Well Locations Crystal Geyser Roxane, Spring Water Bottling Facility Olancho, California</p>	
	
Santa Barbara	February 2015
<p>Figure 4</p>	

APPENDIX A

LITHOLOGIC BORING LOGS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING AP-1
START DRILL DATE Jan 6, 15
FINISH DRILL DATE Jan 6, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1

ELEVATION DATA:
GROUND SURF. 3619.11
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 7) Plasticity 2) Soil/Rock Name 8) Density/Consistency 3) Color 9) Structure 4) Moisture 10) Other (Mineralization, 5) Grain Size Discoloration, Odor, etc.) 6) Percentage	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring	
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
5	well graded SAND (SW); olive brown (2.5Y, 4/3); moist; fine to coarse with trace gravel; (tr, 95, 5); non-plastic; very loose.				3618							
					3617							
					3616							
					3615							
					3614							
					3613			50		0835		
					3612			15		0850		
	poorly graded GRAVEL with silt (GP-GM); olive brown (2.5Y, 4/4); wet; medium gravel; (85,5,10); non-plastic; loose.			▼ Groundwater encountered	3611			30		0900		
					3610							
10	CLAY with sand (CL); black (2.5Y, 2.5/1); wet; fine sand; (0,15,85); high plasticity; hard.				3609			50		0910		
					3608							TD at 11' bgs
					3607							
					3606							
					3605							
					3604							
					3603							
					3602							
					3601							
					3600							
					3599							
					3598							
					3597							
					3596							
					3595							
					3594							
					3593							
					3592							
					3591							
					3590							

07-WELL BORE CGR-SITE INVESTIGATION.GPJ GEOSNTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD HSA
DIAMETER 8"
LOGGER B.Franz

NORTHING 1995883.39504
EASTING 6850807.97077
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING CT-1
START DRILL DATE Jan 8, 15
FINISH DRILL DATE Jan 8, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1

ELEVATION DATA:
GROUND SURF. 3637.06
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 2) Soil/Rock Name 3) Color 4) Moisture 5) Grain Size 6) Percentage 7) Plasticity 8) Density/Consistency 9) Structure 10) Other (Mineralization, Discoloration, Odor, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring	
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
5	poorly graded SAND with silt (SP-SM); dark yellowish brown (10YR, 3/4); dry; fine to medium sand; small to medium subangular gravel; (10,80,10); non-plastic; loose.				3636 3635 3634 3633 3632 3631 3630				80		1140	
10	poorly graded SAND (SP); yellow (10YR, 7/6); dry; fine to medium sand; trace subrounded gravel; (tr,95,5); non-plastic; medium dense; cobbles.				3629 3628 3627 3626 3625 3624				80		1145	
15				▼ Groundwater encountered	3623 3622 3621 3620 3619				80		1455	
20					3619 3618 3617 3616 3615 3614 3613 3612 3611 3610 3609 3608				100		1205	
30												TD at 18' bgs

07-WELL BORE CGR-SITE INVESTIGATION.GPJ GEOSNTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Franz

NORTHING 1996288.39093
EASTING 6849605.57821
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING EP-3
START DRILL DATE Jan 6, 15
FINISH DRILL DATE Jan 6, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 3605.47
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 7) Plasticity 2) Soil/Rock Name 8) Density/Consistency 3) Color 9) Structure 4) Moisture 10) Other (Mineralization, 5) Grain Size Discoloration, Odor, etc.) 6) Percentage	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring		
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)		TIME (00:00)	
	well graded SAND with silt (SW-SM); light olive brown (2.5Y, 5/4); dry; fine to coarse sand; small to medium gravel; (5,85,10); non-plastic; loose.				3605								
			3604										
			3603										
			3602										
			3601										
5	SAA except decreasing gravel content.					3600		X		100		1017	
						3599		X					
						3598							
						3597							
					▼ Groundwater encountered	3596							
10	SAA except wet.					3595		X		100		1030	
						3594		X					TD at 11.5' bgs
						3593							
						3592							
						3591							
15						3590							
						3589							
						3588							
						3587							
						3586							
20					3585								
					3584								
					3583								
					3582								
					3581								
25					3580								
					3579								
					3578								
					3577								
					3576								
30													

07-WELL BORE CGR-SITE INVESTIGATION.GPJ GEOSNTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD HSA
DIAMETER 8"
LOGGER B. Franz

NORTHING 1995817.33462
EASTING 6852108.18870
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING FP-2
START DRILL DATE Jan 7, 15
FINISH DRILL DATE Jan 7, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 3639.16
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 7) Plasticity 2) Soil/Rock Name 8) Density/Consistency 3) Color 9) Structure 4) Moisture 10) Other (Mineralization, 5) Grain Size Discoloration, Odor, etc.) 6) Percentage	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring	
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
5	silty SAND (SM); olive brown (2.5Y, 4/4); dry; fine to medium sand, trace gravel; (tr,80,20); non-plastic; loose.				3638				90		0956	
					3637							
10	well graded SAND (SW); light yellowish brown (2.5Y, 6/4); dry; fine to coarse sand, trace small gravel; (5,90,5); non-plastic; loose.				3635				80		1000	
					3634							
15	silty SAND (SM); olive brown (2.5Y, 4/4); dry; fine to medium sand; (0,80,20); non-plastic; loose.				3633				90		1005	
					3632							
20	well graded SAND (SW); light yellowish brown (2.5Y, 6/4); dry; fine to coarse sand, small to medium gravel; (5,90,5); non-plastic; loose.				3629				75		1013	
					3628							
25	sandy CLAY (CL); olive brown (2.5Y, 4/3); moist; fine sand; (0,50,50); low plasticity; firm.			▼ Groundwater encountered	3627				50		1022	
					3626							
30	well graded SAND (SW); light olive brown (2.5Y, 5/3); wet; fine to coarse sand; (0,95,5); non-plastic; loose.				3625				40		1040	
					3624							
30	sandy CLAY (CL); olive brown (2.5Y, 4/3); wet; fine sand; (0,50,50); low plasticity; firm.				3623							TD at 24' bgs
					3622							
30	poorly graded SAND with silt (SP-SM); grayish brown (2.5Y, 5/2); wet; fine to medium sand; (0,90,10); non-plastic; loose.				3621							
					3620							
30					3619							
					3618							
30					3617							
					3616							
30					3615							
					3614							
30					3613							
					3612							
30					3611							
					3610							

07-WELL BORE CGR-SITE INVESTIGATION.GPJ GEOSINTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Franz

NORTHING 1994117.76181
EASTING 6850417.28009
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING FP-3
START DRILL DATE Jan 6, 15
FINISH DRILL DATE Jan 6, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 3631.56
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 2) Soil/Rock Name 3) Color 4) Moisture 5) Grain Size 6) Percentage 7) Plasticity 8) Density/Consistency 9) Structure 10) Other (Mineralization, Discoloration, Odor, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring	
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)		TIME (00:00)
5	silty SAND (SM); dark olive brown (2.5Y, 3/3); moist; fine to medium sand; (0,70,30); non-plastic; loose.				3631 3630 3629 3628 3627 3626 3625 3624 3623 3622 3621 3620 3619 3618 3617 3616 3615 3614 3613 3612 3611 3610 3609 3608 3607 3606 3605 3604 3603 3602							
	SAA						X		100		1220	
10	poorly graded SAND with silt (SP-SM); olive brown (2.5Y, 4/4); moist; fine to medium sand; (0,90,10); non-plastic; loose.											
	silty SAND (SM); olive brown (2.5Y, 4/3); moist; fine to medium sand; (0,70,30); non-plastic; loose.											
15	SAA except dark gray (2.5Y, 4/1); decreasing fines to (0,85,15); wet.											
	clayey SAND (SC); dark grayish brown (2.5Y, 4/2); wet; fine sand; (0,60,40); low plasticity; loose.			▼ Groundwater encountered								
	silty SAND (SM); gray (2.5Y, 5/1); wet; fine to medium sand; (0,80,20); non-plastic; loose.											
20												
25												
30												
												TD at 17' bgs

07-WELL BORE CGR-SITE INVESTIGATION.GPJ GEOSNTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD HSA
DIAMETER 8"
LOGGER B. Franz

NORTHING 1994439.12909
EASTING 6850450.59525
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS



924 Anacapa St
Suite 4A
Santa Barbara, CA 93101
Tel: (805) 897-3800
Fax: (805) 899-8689

BORING FP-4
START DRILL DATE Jan 7, 15
FINISH DRILL DATE Jan 7, 15
LOCATION Olancha, CA
PROJECT CGR - Phase 1
NUMBER SB0721

SHEET 1 OF 1
ELEVATION DATA:
GROUND SURF. 3630.74
TOP OF CASING
DATUM NAD 1983

GS FORM:
WELL BORE 01/04

BOREHOLE LOG

DEPTH (ft-bgs)	DESCRIPTION 1) Unit/Formation, Mem. 2) Soil/Rock Name 3) Color 4) Moisture 5) Grain Size 6) Percentage 7) Plasticity 8) Density/Consistency 9) Structure 10) Other (Mineralization, Discoloration, Odor, etc.)	GRAPHIC LOG	WELL LOG	GROUNDWATER OR STRUCTURE	ELEVATION (ft)	SAMPLE					COMMENTS 1) Rig Behavior 2) Air Monitoring
						SAMPLE NO.	TYPE	BLOWS PER 6"	RECOVERY (%)	PID READING (ppm)	
5	silty SAND (SM); olive brown (2.5Y, 4/3); moist; fine to medium sand; (0,80,20); non-plastic; loose.				3630 3629 3628 3627 3626 3625 3624 3623			75		0825	
10	well graded SAND with silt (SW-SM); yellowish brown (10YR, 5/6); moist; fine to coarse sand; (0,90,10); non-plastic; loose.				3622 3621 3620			75		0834	
	well graded SAND (SW); grayish brown (10YR, 5/2); wet; fine to coarse sand; (0,95,5); non-plastic; loose.			▼ Groundwater encountered	3619 3618			75		0840	
15	sandy CLAY (CL); brown (10YR, 4/3); wet; fine to medium sand; (0,50,50); low to medium plasticity; firm.				3617 3616 3615 3614						
20					3613 3612 3611 3610 3609 3608 3607 3606 3605 3604 3603 3602 3601						TD at 17' bgs

07-WELL BORE CGR - SITE INVESTIGATION.GPJ GEOSNTEC.GDT 2/16/15

CONTRACTOR Gregg Drilling
EQUIPMENT Rhino M5T
DRILL MTHD Direct Push
DIAMETER 2"
LOGGER B. Franz

NORTHING 1994311.17675
EASTING 6850565.11697
COORDINATE SYSTEM:
NAD 1983
REVIEWER R. Smith

NOTES: SAA = Same As Above

SEE KEY SHEET FOR SYMBOLS AND ABBREVIATIONS

APPENDIX B

LABORATORY REPORTS

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

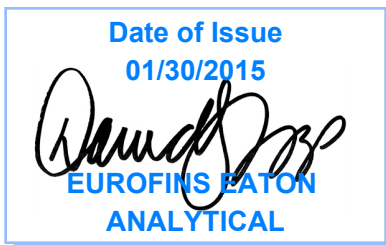


AT-1807

Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 514839
Project: CGR-OLANCHA
Group: GEOSYNTEC-SB

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 514839
 Project: CGR-OLANCHA
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 07, 2015 at 12:49**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201501070229</u>	AP-1-20150105	01/05/2015 1645
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
<u>201501070230</u>	QCEB-1-20150105	01/05/2015 1700
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
<u>201501070231</u>	FP-3-20150106	01/06/2015 1320
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
<u>201501070652</u>	EP-3-20150106	01/06/2015 1100

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 514839
 Project: CGR-OLANCHA
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 07, 2015 at 12:49**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample ID	Sample Date
	@ICPMS	@ICPMS	@QUANT2000 18HR
	@THM524	@VOAPP	Alkalinity in CaCO3 units
	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Calcium Total ICAP
	Chloride	Free Chlorine Residual	Freight - RUSH
	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP
	Sulfate	Surfactants	Total Chlorine Residual
	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc
	Total phosphorus as P		
201501070653	QCEB-2-20150106		01/06/2015 1330
	@ICPMS	@ICPMS	@QUANT2000 18HR
	@THM524	@VOAPP	Alkalinity in CaCO3 units
	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Calcium Total ICAP
	Chloride	Free Chlorine Residual	Freight - RUSH
	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP
	Sulfate	Surfactants	Total Chlorine Residual
	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc
	Total phosphorus as P		
201501070657	QCTB-1-20150106		01/05/2015 1645
	@THM524 TB	@VOAPP TB	

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @QUANT2000 -- Quantitray Coliforms
- @QUANT2000 18HR -- Quantitray Coliforms 18 Hour
- @THM524 -- Volatile Organics by GCMS
- @THM524 TB -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624



Eaton Analytical

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

LOGIN COMMENTS:

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
 Monrovia 3.5 - 0.3 = 3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Partially Frozen _____ Wet Ice No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

SAMPLES CHECKED AGAINST COC BY: *DA*

SAMPLES LOGGED IN BY: *DA*

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Geosyntec Consultants

PROJECT CODE: S80718

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES (check for yes)

- Requires state forms
 REGULATION INVOLVED:
 Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)

SAMPLE GROUP:

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

STD 1 wk ___ 3 day ___ 2 day ___ 1 day ___

TAT requested: rush by adv notice only

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX*	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
1/5/15	1645	AP-1-20150105		RAW	X		Analyze per project correspondence (4 coolers)
1/5/15	1700	QCEB-1-20150105		RAW	X		
1/6/15	1100	EP-3-2015 0106		RAW	X		
1/6/15	1320	FP-3-2015 0106		RAW	X		
1/6/15	1330	QCEB-2-20150106		RAW	X		
		<u>Nebra 17</u>					
		<u>1442</u>					

Old Plummer

JAN 07 2015 1244

Victor Plascencia
 Eurofins Eaton Analytical

* MATRIX TYPES: RAW = Raw Surface Water
 RGW = Raw Ground Water
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water
 SEAW = Sea Water
 WW = Waste Water
 BW = Bottled Water
 SW = Storm Water
 SO = Soil
 SL = Sludge

SIGNED BY:	PRINT NAME	COMPANY/TITLE	DATE	TIME
<i>B Franz</i>	Brian Franz	Geosyntec / Staff Geologist	1/6/15	1550
RELINQUISHED BY:				
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY:				

Note: Sampler Please return this paper with your samples

Kit #: 103306
Created By: DST
Deliver By: 12/29/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: GEOSYNTEC-SB
PO#/JOB#:

Ship Sample Kits to
Geosyntec Consultants
924 Anacapa Street, Suite 4A
Santa Barbara, CA 93101

Attn: Brian Franz

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
1210 South Highway 395
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
18	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
18	@ICPMS, Surfactants	1 500ml poly no preservative	
18	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
18	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
4	@THM524 TB	3 40ml amber glass vial 1 drop thio (8%) + H2O	
18	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
4	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
18	Alkalinity in CaCO3 units, PH (H3=past HT not compliant)	1 250ml poly no preservative	
18	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
18	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
18	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
18	Orthophosphate as P	1 125ml poly OPO4_no preservative	
18	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

SHIPPING: Please deliver Dec 29th to include sampling instructions and wet ice packing instructions. Separate cooler for each sample point and Blank. And include 4 gallons of DI or lab reagent water.



Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

514839

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: JS

SAMPLES LOGGED IN BY: JS

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
 Monrovia 3.5-6.3-3.2 _____ °C (Compliance: 4 ± 2 °C)

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Wet Ice No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

(check for yes)

(check for yes)

COMPANY/AGENCY NAME:		PROJECT CODE:		COMPLIANCE SAMPLES <input type="checkbox"/> NON-COMPLIANCE SAMPLES <input type="checkbox"/>	
COE ID:		SAMPLE GROUP:		- Requires state forms REGULATION INVOLVED:	
TAT requested: rush by adv notice only		STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___		Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)	
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA
1/5/15	1645	AP-1-2015 0105			
1/5/15	1700	QCEB-1-2015 0105			
1/5/15	1730	FP-3-2015 0106			
1/6/15					
SIGNATURE: <u>Neena 17</u> DATE: <u>JAN 07 2015 12:49</u>			2 of 4 MPS# 7801 6650 2709 Mstr# 8065 0574 1612 92 WHPA 0200 WED - 07 JAN 10:30A PRIORITY OVERNIGHT 91016 CA - US BUR		
SEE ATTACHED BOTTLE ORDER FOR ANALYSES <input checked="" type="checkbox"/> (check for yes), OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)					
SAMPLER		SAMPLER COMMENTS			

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water
RGW = Raw Ground Water FW = Other Finished Water

SEAW = Sea Water BW = Bottled Water SO = Soil
WW = Waste Water SW = Storm Water SL = Sludge

SIGNATURE _____ PRINT NAME _____ DATE _____ TIME _____

COMPANY/TITLE

DATE

TIME

SAMPLED BY:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/07/2015 12:49

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201501070229	<u>AP-1-20150105</u>			
01/08/2015 15:48	Alkalinity in CaCO3 units		4.3		mg/L	2
01/14/2015 13:05	Ammonia Nitrogen		0.66		mg/L	0.05
01/08/2015 19:50	Antimony Total ICAP/MS		1.0	6	ug/L	1
01/14/2015 16:15	Arsenic dissolved ICAP/MS		3.0		ug/L	1
01/08/2015 19:50	Arsenic Total ICAP/MS		61	10	ug/L	1
01/14/2015 16:15	Barium dissolved ICAP/MS		120		ug/L	2
01/08/2015 19:50	Barium Total ICAP/MS		170	2000	ug/L	2
01/08/2015 19:50	Beryllium Total ICAP/MS		7.6	4	ug/L	1
01/09/2015 11:07	Bicarb. Alkalinity as HCO3calc		5.3		mg/L	2
01/08/2015 19:50	Cadmium Total ICAP/MS		3.2	5	ug/L	0.5
01/12/2015 17:31	Calcium Total ICAP		580		mg/L	5
01/11/2015 18:12	Chloride		4.3	250	mg/L	1
01/08/2015 19:50	Chromium Total ICAP/MS		23	100	ug/L	1
01/08/2015 19:50	Cobalt Total ICAP/MS		40		ug/L	2
01/08/2015 19:50	Copper Total ICAP/MS		6.8	1300	ug/L	2
01/07/2015 16:00	Free Chlorine Residual (H3=past HT not compliant)		0.14		mg/L	0.1
01/09/2015 10:14	Kjeldahl Nitrogen		0.51		mg/L	0.2
01/08/2015 19:50	Lead Total ICAP/MS		1.4	15	ug/L	0.5
01/12/2015 17:31	Magnesium Total ICAP		330		mg/L	0.5
01/14/2015 16:15	Molybdenum dissolved ICAP/MS		3.0		ug/L	2
01/08/2015 19:50	Nickel Total ICAP/MS		80		ug/L	5
01/07/2015 15:24	Orthophosphate as P		4.2		mg/L	0.05
01/08/2015 15:48	PH (H3=past HT not compliant)		6.3		Units	0.1
01/12/2015 17:31	Sodium Total ICAP		70		mg/L	5
01/11/2015 18:25	Sulfate		580	250	mg/L	5
01/08/2015 15:08	Total Dissolved Solids (TDS)		960	500	mg/L	10
01/09/2015 12:14	Total Nitrogen-Calc		0.51		mg/L	0.2
01/22/2015 16:39	Total phosphorus as P		1.2		mg/L	0.1
01/08/2015 19:50	Vanadium Total ICAP/MS		8.6		ug/L	3
01/08/2015 19:50	Zinc Total ICAP/MS		110	5000	ug/L	20
		201501070230	<u>QCEB-1-20150105</u>			
01/12/2015 20:30	Chloroform (Trichloromethane)		0.92		ug/L	0.5
01/12/2015 20:30	Chloroform (Trichloromethane)		0.92		ug/L	0.5
01/08/2015 15:56	PH (H3=past HT not compliant)		5.7		Units	0.1
01/12/2015 20:30	Total THM		0.92	80	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201501070231	<u>FP-3-20150106</u>			
01/08/2015 16:03	Alkalinity in CaCO3 units		88		mg/L	2
01/14/2015 13:08	Ammonia Nitrogen		0.50		mg/L	0.05
01/14/2015 14:25	Antimony dissolved ICAP/MS		1.0		ug/L	1
01/14/2015 14:25	Arsenic dissolved ICAP/MS		19		ug/L	1
01/08/2015 19:57	Arsenic Total ICAP/MS		44	10	ug/L	1
01/14/2015 14:25	Barium dissolved ICAP/MS		57		ug/L	2
01/08/2015 19:57	Barium Total ICAP/MS		320	2000	ug/L	2
01/09/2015 11:07	Bicarb.Alkalinity as HCO3calc		110		mg/L	2
01/12/2015 17:35	Calcium Total ICAP		48		mg/L	5
01/07/2015 17:11	Chloride		1.6	250	mg/L	1
01/08/2015 19:57	Chromium Total ICAP/MS		1.0	100	ug/L	1
01/08/2015 19:57	Cobalt Total ICAP/MS		4.3		ug/L	2
01/08/2015 19:57	Copper Total ICAP/MS		5.8	1300	ug/L	2
01/09/2015 10:07	Kjeldahl Nitrogen		0.60		mg/L	0.2
01/08/2015 19:57	Lead Total ICAP/MS		5.8	15	ug/L	0.5
01/12/2015 17:35	Magnesium Total ICAP		24		mg/L	0.5
01/14/2015 14:25	Molybdenum dissolved ICAP/MS		11		ug/L	2
01/07/2015 17:11	Nitrate as Nitrogen by IC		0.32	10	mg/L	0.1
01/07/2015 15:25	Orthophosphate as P		0.44		mg/L	0.01
01/08/2015 16:03	PH (H3=past HT not compliant)		7.1		Units	0.1
01/12/2015 17:35	Sodium Total ICAP		17		mg/L	5
01/07/2015 17:11	Sulfate		19	250	mg/L	0.5
01/08/2015 15:09	Total Dissolved Solids (TDS)		330	500	mg/L	10
01/09/2015 12:14	Total Nitrogen-Calc		0.92		mg/L	0.2
01/21/2015 17:36	Total phosphorus as P		1.5		mg/L	0.04
01/08/2015 19:57	Vanadium Total ICAP/MS		27		ug/L	3
01/08/2015 19:57	Zinc Total ICAP/MS		72	5000	ug/L	20
		201501070652	<u>EP-3-20150106</u>			
01/08/2015 11:15	18 Hour Total Coliform Confrm (Large Wells)		49		PW	1
01/08/2015 11:15	18 Hour Total Coliform Confrm (Small Wells)		35		PW	1
01/08/2015 20:44	Alkalinity in CaCO3 units		160		mg/L	2
01/14/2015 14:28	Antimony dissolved ICAP/MS		1.1		ug/L	1
01/12/2015 20:48	Antimony Total ICAP/MS		1.9	6	ug/L	1
01/14/2015 14:28	Arsenic dissolved ICAP/MS		10		ug/L	1
01/12/2015 20:48	Arsenic Total ICAP/MS		55	10	ug/L	1
01/14/2015 14:28	Barium dissolved ICAP/MS		2.6		ug/L	2

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/07/2015 12:49

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/12/2015 20:48	Barium Total ICAP/MS		560	2000	ug/L	2
01/09/2015 11:10	Bicarb.Alkalinity as HCO3calc		200		mg/L	2
01/12/2015 20:48	Cadmium Total ICAP/MS		0.69	5	ug/L	0.5
01/12/2015 17:40	Calcium Total ICAP		480		mg/L	5
01/07/2015 20:24	Chloride		14	250	mg/L	1
01/12/2015 20:48	Chromium Total ICAP/MS		58	100	ug/L	1
01/12/2015 20:48	Cobalt Total ICAP/MS		16		ug/L	2
01/19/2015 16:02	Copper dissolved ICAP/MS		11		ug/L	2
01/12/2015 20:48	Copper Total ICAP/MS		110	1300	ug/L	2
01/09/2015 10:11	Kjeldahl Nitrogen		0.90		mg/L	0.2
01/12/2015 20:48	Lead Total ICAP/MS		32	15	ug/L	0.5
01/12/2015 17:40	Magnesium Total ICAP		74		mg/L	0.5
01/14/2015 14:28	Molybdenum dissolved ICAP/MS		9.9		ug/L	2
01/12/2015 20:48	Molybdenum Total ICAP/MS		9.7		ug/L	2
01/12/2015 20:48	Nickel Total ICAP/MS		28		ug/L	5
01/07/2015 20:24	Nitrate as Nitrogen by IC		0.23	10	mg/L	0.1
01/07/2015 19:06	Orthophosphate as P		0.29		mg/L	0.01
01/08/2015 20:44	PH (H3=past HT not compliant)		8.2		Units	0.1
01/12/2015 17:40	Sodium Total ICAP		49		mg/L	5
01/07/2015 20:24	Sulfate		34	250	mg/L	0.5
01/08/2015 11:15	Total Coliform Bacteria		82000		MPN/100 mL	100
01/08/2015 15:11	Total Dissolved Solids (TDS)		270	500	mg/L	10
01/09/2015 12:14	Total Nitrogen-Calc		1.1		mg/L	0.2
01/22/2015 16:38	Total phosphorus as P		2.0		mg/L	0.1
01/12/2015 20:48	Vanadium Total ICAP/MS		73		ug/L	3
01/12/2015 20:48	Zinc Total ICAP/MS		280	5000	ug/L	20
		201501070653	<u>QCEB-2-20150106</u>			
01/14/2015 7:26	Chloroform (Trichloromethane)		0.93		ug/L	0.5
01/14/2015 7:26	Chloroform (Trichloromethane)		0.93		ug/L	0.5
01/08/2015 20:53	PH (H3=past HT not compliant)		5.8		Units	0.1
01/14/2015 7:26	Total THM		0.93	80	ug/L	0.5

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
AP-1-20150105 (201501070229)						Sampled on 01/05/2015 1645		
EPA 200.8 - ICPMS Metals								
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Antimony Total ICAP/MS	1.0	ug/L	1	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	3.0	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Arsenic Total ICAP/MS	61	ug/L	1	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Barium dissolved ICAP/MS	120	ug/L	2	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Barium Total ICAP/MS	170	ug/L	2	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Beryllium Total ICAP/MS	7.6	ug/L	1	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Cadmium Total ICAP/MS	3.2	ug/L	0.5	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Chromium Total ICAP/MS	23	ug/L	1	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Cobalt Total ICAP/MS	40	ug/L	2	1
1/7/2015	01/19/2015	15:59 814692	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Copper Total ICAP/MS	6.8	ug/L	2	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Lead Total ICAP/MS	1.4	ug/L	0.5	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	3.0	ug/L	2	1
1/7/2015	01/08/2015	20:53 813279	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Nickel Total ICAP/MS	80	ug/L	5	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/7/2015	01/20/2015	21:28 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Vanadium Total ICAP/MS	8.6	ug/L	3	1
1/7/2015	01/14/2015	16:15 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/7/2015	01/08/2015	19:50 813185	(EPA 200.8)	Zinc Total ICAP/MS	110	ug/L	20	1
EPA 200.7 - ICP Metals								
1/7/2015	01/12/2015	17:31 813793	(EPA 200.7)	Calcium Total ICAP	580	mg/L	5	5

Rounding on totals after summation.
 (c) - indicates calculated results

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/7/2015	01/12/2015	17:31 813793	(EPA 200.7)	Magnesium Total ICAP	330	mg/L	0.5	5
1/7/2015	01/12/2015	17:31 813793	(EPA 200.7)	Sodium Total ICAP	70	mg/L	5	5
SM 9223B - Quantitray Coliforms								
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confrm (Large Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confrm (Small Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria	<100 (H3)	MPN/100 mL	100	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria	<100 (H3)	MPN/100 mL	100	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/09/2015	12:14	(EPA 353-351)	Total Nitrogen-Calc	0.51	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/09/2015	11:07	(SM2330B)	Bicarb.Alkalinity as HCO3calc	5.3	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/07/2015	16:45 812646	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.25	5
	01/07/2015	16:45 812646	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.25	5
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/11/2015	18:12 813673	(EPA 300.0)	Chloride	4.3	mg/L	1	1
	01/11/2015	18:25 813673	(EPA 300.0)	Sulfate	580	mg/L	5	10
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:39 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	1.2 (B7)	mg/L	0.1	5
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/09/2015	10:14 813388	(EPA 351.2)	Kjeldahl Nitrogen	0.51	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	13:05 814272	(EPA 350.1)	Ammonia Nitrogen	0.66	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	1,2-Dichloroethane-d4	96	%		1
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	4-Bromofluorobenzene	106	%		1

Rounding on totals after summation.
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/12/2015	01/12/2015	20:08 813884	(EPA 524.2)	Toluene-d8	96	%		1
EPA 624 - Volatile Organics by EPA 624								
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Acetone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1

Rounding on totals after summation.
 (c) - indicates calculated results

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 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	1,2-Dichloroethane-d4	96	%		1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	4-Bromofluorobenzene	106	%		1
1/12/2015	01/12/2015	20:08 813889	(EPA 624)	Toluene-d8	96	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/08/2015	15:48 813119	(SM 2320B)	Alkalinity in CaCO3 units	4.3	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/8/2015	01/08/2015	15:08 813151	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	960	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/08/2015	15:48 813120	(SM4500-HB)	PH (H3=past HT not compliant)	6.3	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/07/2015	14:07 812961	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/07/2015	15:24 812937	(4500P-E/365.1)	Orthophosphate as P	4.2	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 812960	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 813140	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	0.14 (H5)	mg/L	0.1	1

QCEB-1-20150105 (201501070230)

Sampled on 01/05/2015 1700

EPA 200.8 - ICPMS Metals

1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	2	1

Rounding on totals after summation.
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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/15/2015	13:10 814636	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1	
1/7/2015	01/20/2015	21:30 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/13/2015	20:55 814030	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1	
1/7/2015	01/14/2015	16:06 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1	
1/7/2015	01/08/2015	19:15 813105	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1	
EPA 200.7 - ICP Metals									
1/7/2015	01/08/2015	19:39 813171	(EPA 200.7)	Calcium Total ICAP	ND	mg/L	1	1	
1/7/2015	01/08/2015	19:39 813171	(EPA 200.7)	Magnesium Total ICAP	ND	mg/L	0.1	1	
1/7/2015	01/08/2015	19:39 813171	(EPA 200.7)	Sodium Total ICAP	ND	mg/L	1	1	
SM 9223B - Quantitray Coliforms									
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1	
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1	
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND (H3)	PW	1	1	

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confrm (Small Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria	<1 (H3)	MPN/100 mL	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria	<1 (H3)	MPN/100 mL	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/09/2015	12:14	(EPA 353-351)	Total Nitrogen-Calc	ND	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/09/2015	11:07	(SM2330B)	Bicarb.Alkalinity as HCO3calc	ND	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/07/2015	16:58 812646	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	01/07/2015	16:58 812646	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/07/2015	16:58 812649	(EPA 300.0)	Chloride	ND	mg/L	1	1
	01/07/2015	16:58 812649	(EPA 300.0)	Sulfate	ND	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/21/2015	17:52 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	ND	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/09/2015	10:15 813388	(EPA 351.2)	Kjeldahl Nitrogen	ND	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	13:06 814272	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Chloroform (Trichloromethane)	0.92	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Total THM	0.92	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	4-Bromofluorobenzene	97	%		1
1/12/2015	01/12/2015	20:30 813884	(EPA 524.2)	Toluene-d8	93	%		1
EPA 624 - Volatile Organics by EPA 624								
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Acetone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Chloroform (Trichloromethane)	0.92	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30	813889	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	1,2-Dichloroethane-d4	101	%		1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	4-Bromofluorobenzene	97	%		1
1/12/2015	01/12/2015	20:30 813889	(EPA 624)	Toluene-d8	93	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/08/2015	15:56 813119	(SM 2320B)	Alkalinity in CaCO3 units	ND	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/8/2015	01/08/2015	15:24 813151	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/08/2015	15:56 813120	(SM4500-HB)	PH (H3=past HT not compliant)	5.7	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/07/2015	14:08 812961	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/07/2015	15:23 812937	(4500P-E/365.1)	Orthophosphate as P	ND	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 812960	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 813140	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

FP-3-20150106 (201501070231)

Sampled on 01/06/2015 1320

EPA 200.8 - ICPMS Metals

1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	1.0	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	19	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Arsenic Total ICAP/MS	44	ug/L	1	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Barium dissolved ICAP/MS	57	ug/L	2	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Barium Total ICAP/MS	320	ug/L	2	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Chromium Total ICAP/MS	1.0	ug/L	1	1

Rounding on totals after summation.
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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Cobalt Total ICAP/MS	4.3	ug/L	2	1
1/7/2015	01/15/2015	13:02 814636	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Copper Total ICAP/MS	5.8	ug/L	2	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Lead Total ICAP/MS	5.8	ug/L	0.5	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	11	ug/L	2	1
1/7/2015	01/08/2015	20:54 813279	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/7/2015	01/20/2015	21:29 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Vanadium Total ICAP/MS	27	ug/L	3	1
1/7/2015	01/14/2015	14:25 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/7/2015	01/08/2015	19:57 813185	(EPA 200.8)	Zinc Total ICAP/MS	72	ug/L	20	1
EPA 200.7 - ICP Metals								
1/7/2015	01/12/2015	17:35 813793	(EPA 200.7)	Calcium Total ICAP	48	mg/L	5	5
1/7/2015	01/12/2015	17:35 813793	(EPA 200.7)	Magnesium Total ICAP	24	mg/L	0.5	5
1/7/2015	01/12/2015	17:35 813793	(EPA 200.7)	Sodium Total ICAP	17	mg/L	5	5
SM 9223B - Quantitray Coliforms								
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND (H3)	PW	1	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria	<100 (H3)	MPN/100 mL	100	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria	<100 (H3)	MPN/100 mL	100	1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1
1/7/2015	01/08/2015	13:50 813159	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/09/2015	12:14	(EPA 353-351)	Total Nitrogen-Calc	0.92	mg/L	0.2	1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/09/2015	11:07	(SM2330B)	Bicarb.Alkalinity as HCO3calc	110	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/07/2015	17:11	812646 (EPA 300.0)	Nitrate as Nitrogen by IC	0.32	mg/L	0.1	1
	01/07/2015	17:11	812646 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/07/2015	17:11	812649 (EPA 300.0)	Chloride	1.6	mg/L	1	1
	01/07/2015	17:11	812649 (EPA 300.0)	Sulfate	19	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/21/2015	17:36	815041 (SM4500-PE/EPA 365.1)	Total phosphorus as P	1.5 (M1)	mg/L	0.04	2
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/09/2015	10:07	813388 (EPA 351.2)	Kjeldahl Nitrogen	0.60	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	13:08	814272 (EPA 350.1)	Ammonia Nitrogen	0.50	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	1,2-Dichloroethane-d4	107	%		1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	4-Bromofluorobenzene	98	%		1
1/12/2015	01/13/2015	1:16	813884 (EPA 524.2)	Toluene-d8	97	%		1
EPA 624 - Volatile Organics by EPA 624								
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	2-Hexanone	ND	ug/L	10	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	Acetone	ND	ug/L	10	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/12/2015	01/13/2015	1:16	813889 (EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Bromomethane (Methyl Bromide)	ND (M2)	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Carbon disulfide	ND (M1)	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	cis-1,3-Dichloropropene	ND (M2)	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	1,2-Dichloroethane-d4	107	%		1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	4-Bromofluorobenzene	98	%		1
1/12/2015	01/13/2015	1:16	813889	(EPA 624)	Toluene-d8	97	%		1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 2320B - Alkalinity in CaCO3 units								
	01/08/2015	16:03 813119	(SM 2320B)	Alkalinity in CaCO3 units	88	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/8/2015	01/08/2015	15:09 813151	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	330	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/08/2015	16:03 813120	(SM4500-HB)	PH (H3=past HT not compliant)	7.1	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/07/2015	14:09 812961	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/07/2015	15:25 812937	(4500P-E/365.1)	Orthophosphate as P	0.44	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 812960	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 813140	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

EP-3-20150106 (201501070652)

Sampled on 01/06/2015 1100

EPA 200.8 - ICPMS Metals								
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	1.1	ug/L	1	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Antimony Total ICAP/MS	1.9	ug/L	1	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	10	ug/L	1	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Arsenic Total ICAP/MS	55	ug/L	1	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Barium dissolved ICAP/MS	2.6	ug/L	2	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Barium Total ICAP/MS	560	ug/L	2	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/12/2015	22:11 813971	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Cadmium Total ICAP/MS	0.69	ug/L	0.5	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Chromium Total ICAP/MS	58	ug/L	1	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Cobalt Total ICAP/MS	16	ug/L	2	1
1/8/2015	01/19/2015	16:02 814692	(EPA 200.8)	Copper dissolved ICAP/MS	11	ug/L	2	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Copper Total ICAP/MS	110	ug/L	2	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Lead Total ICAP/MS	32	ug/L	0.5	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	9.9	ug/L	2	1

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Samples Received on:
01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Molybdenum Total ICAP/MS	9.7	ug/L	2	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Nickel Total ICAP/MS	28	ug/L	5	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/8/2015	01/09/2015	18:57 813475	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/19/2015	14:38 814885	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Vanadium Total ICAP/MS	73	ug/L	3	1
1/8/2015	01/14/2015	14:28 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/8/2015	01/12/2015	20:48 813982	(EPA 200.8)	Zinc Total ICAP/MS	280	ug/L	20	1
EPA 200.7 - ICP Metals								
1/8/2015	01/12/2015	17:40 813793	(EPA 200.7)	Calcium Total ICAP	480	mg/L	5	5
1/8/2015	01/12/2015	17:40 813793	(EPA 200.7)	Magnesium Total ICAP	74	mg/L	0.5	5
1/8/2015	01/12/2015	17:40 813793	(EPA 200.7)	Sodium Total ICAP	49	mg/L	5	5
SM 9223B - Quantitray Coliforms 18 Hour								
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour Total Coliform Confm (Large Wells)	49	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour Total Coliform Confm (Small Wells)	35	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	Total Coliform Bacteria	82000	MPN/100 mL	100	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	Total Coliform Bacteria (P/A)	P			1
EPA 353-351 - Total Nitrogen-Calc								
	01/09/2015	12:14	(EPA 353-351)	Total Nitrogen-Calc	1.1	mg/L	0.2	1
SM2330B - Bicarb.Aikalinity as HCO3,calc								
	01/09/2015	11:10	(SM2330B)	Bicarb.Aikalinity as HCO3calc	200	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/07/2015	20:24 812933	(EPA 300.0)	Nitrate as Nitrogen by IC	0.23	mg/L	0.1	1
	01/07/2015	20:24 812933	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								

Rounding on totals after summation.
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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	01/07/2015	20:24 812934	(EPA 300.0)	Chloride	14	mg/L	1	1
	01/07/2015	20:24 812934	(EPA 300.0)	Sulfate	34	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:38 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	2.0 (B7)	mg/L	0.1	5
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/09/2015	10:11 813388	(EPA 351.2)	Kjeldahl Nitrogen	0.90	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	13:22 814273	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	1,2-Dichloroethane-d4	103	%		1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	4-Bromofluorobenzene	100	%		1
1/12/2015	01/13/2015	0:54 813884	(EPA 524.2)	Toluene-d8	97	%		1
EPA 624 - Volatile Organics by EPA 624								
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Acetone	ND	ug/L	10	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54 813889	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	1,2-Dichloroethane-d4	103	%		1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	4-Bromofluorobenzene	100	%		1
1/12/2015	01/13/2015	0:54	813889	(EPA 624)	Toluene-d8	97	%		1
SM 2320B - Alkalinity in CaCO3 units									
	01/08/2015	20:44	813146	(SM 2320B)	Alkalinity in CaCO3 units	160	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									
1/8/2015	01/08/2015	15:11	813151	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	270	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)									
	01/08/2015	20:44	813148	(SM4500-HB)	PH (H3=past HT not compliant)	8.2	Units	0.1	1

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 5540C/EPA 425.1 - Surfactants								
	01/07/2015	17:03 812962	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/07/2015	19:06 812939	(4500P-E/365.1)	Orthophosphate as P	0.29	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 812960	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 813140	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

QCEB-2-20150106 (201501070653)

Sampled on 01/06/2015 1330

EPA 200.8 - ICPMS Metals								
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/13/2015	21:16 813928	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	2	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
1/8/2015	01/15/2015	13:11 814636	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/8/2015	01/09/2015	18:51 813475	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/8/2015	01/19/2015	14:38 814885	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/13/2015	20:56 814030	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
1/8/2015	01/14/2015	16:12 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/8/2015	01/09/2015	16:40 813347	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
1/8/2015	01/09/2015	21:28 813505	(EPA 200.7)	Calcium Total ICAP	ND	mg/L	1	1
1/8/2015	01/09/2015	21:28 813505	(EPA 200.7)	Magnesium Total ICAP	ND	mg/L	0.1	1
1/8/2015	01/09/2015	21:28 813505	(EPA 200.7)	Sodium Total ICAP	ND	mg/L	1	1
SM 9223B - Quantitray Coliforms 18 Hour								
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	18 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	Total Coliform Bacteria	<1	MPN/100 mL	1	1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/7/2015	01/08/2015	11:15 813075	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1
EPA 353-351 - Total Nitrogen-Calc								
	01/09/2015	12:14	(EPA 353-351)	Total Nitrogen-Calc	ND	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/09/2015	11:10	(SM2330B)	Bicarb.Alkalinity as HCO3calc	ND	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/07/2015	20:37 812933	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	01/07/2015	20:37 812933	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/07/2015	20:37 812934	(EPA 300.0)	Chloride	ND	mg/L	1	1
	01/07/2015	20:37 812934	(EPA 300.0)	Sulfate	ND	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/21/2015	17:47 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	ND	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/09/2015	10:12 813388	(EPA 351.2)	Kjeldahl Nitrogen	ND	mg/L	0.2	1

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Crystal Geyser Roxane
 Manuel Luna
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Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	13:24	814273	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05 1
EPA 524.2 - Volatile Organics by GCMS								
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Bromoform	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Chloroform (Trichloromethane)	0.93	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Total THM	0.93	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	1,2-Dichloroethane-d4	100	%	1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	4-Bromofluorobenzene	103	%	1
1/13/2015	01/14/2015	7:26	814145	(EPA 524.2)	Toluene-d8	90	%	1
EPA 624 - Volatile Organics by EPA 624								
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	2-Hexanone	ND	ug/L	10 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Acetone	ND	ug/L	10 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Acrolein (Screen)	ND	ug/L	25 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Benzene	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Bromoform	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Carbon disulfide	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Chlorobenzene	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Chlorodibromomethane	ND (L1)	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Chloroethane	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Chloroform (Trichloromethane)	0.93	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5 1
1/13/2015	01/14/2015	7:26	814150	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5 1

Rounding on totals after summation.
 (c) - indicates calculated results

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 1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	1,2-Dichloroethane-d4	100	%		1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	4-Bromofluorobenzene	103	%		1
1/13/2015	01/14/2015	7:26 814150	(EPA 624)	Toluene-d8	90	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/08/2015	20:53 813146	(SM 2320B)	Alkalinity in CaCO3 units	ND	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/8/2015	01/08/2015	15:25 813151	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/08/2015	20:53 813148	(SM4500-HB)	PH (H3=past HT not compliant)	5.8	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/07/2015	17:04 812962	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/07/2015	19:03 812939	(4500P-E/365.1)	Orthophosphate as P	ND	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00 812960	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/07/2015	16:00	813140	(SM 4500CL-G/HACH) Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
QCTB-1-20150106 (201501070657)						Sampled on 01/05/2015 1645		
EPA 524.2 - Volatile Organics by GCMS								
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Bromodichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Chlorodibromomethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Total THM	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) 1,2-Dichloroethane-d4	106	%		1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) 4-Bromofluorobenzene	100	%		1
1/12/2015	01/12/2015	20:52	813884	(EPA 524.2) Toluene-d8	95	%		1
EPA 624 - Volatile Organics by EPA 624								
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,1-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,1-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,2-Dichloroethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 1,2-Dichloropropane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 2-Butanone (MEK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 2-Hexanone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) 4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Acetone	ND	ug/L	10	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Acrolein (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Acrylonitrile (Screen)	ND	ug/L	25	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Bromoform	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Carbon disulfide	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Carbon Tetrachloride	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Chlorobenzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624) Chloroethane	ND	ug/L	0.5	1

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Laboratory Data
 Report: 514839

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/07/2015 12:49

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	1,2-Dichloroethane-d4	106	%		1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	4-Bromofluorobenzene	100	%		1
1/12/2015	01/12/2015	20:52	813889	(EPA 624)	Toluene-d8	95	%		1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Folder Comments

Report and EDD revised to correct coli results - 013015dst.

Flags Legend:

B7 - Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

H3 - Sample was received and/ or analysis requested past holding time.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

L1 - The associated blank spike recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

M2 - Matrix spike recovery was low; the associated blank spike recovery was acceptable.

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Crystal Geysler Roxane

QC Ref # 812646 - Nitrate, Nitrite by EPA 300.0

201501070229 AP-1-20150105
201501070230 QCEB-1-20150105
201501070231 FP-3-20150106

Analysis Date: 01/07/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 812649 - Chloride, Sulfate by EPA 300.0

201501070230 QCEB-1-20150105
201501070231 FP-3-20150106

Analysis Date: 01/07/2015

Analyzed by: CYP
Analyzed by: CYP

QC Ref # 812933 - Nitrate, Nitrite by EPA 300.0

201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/07/2015

Analyzed by: CYP
Analyzed by: CYP

QC Ref # 812934 - Chloride, Sulfate by EPA 300.0

201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/07/2015

Analyzed by: CYP
Analyzed by: CYP

QC Ref # 812937 - Orthophosphate as P (OPO4)

201501070229 AP-1-20150105
201501070230 QCEB-1-20150105
201501070231 FP-3-20150106

Analysis Date: 01/07/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 812939 - Orthophosphate as P (OPO4)

201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/07/2015

Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 812960 - Total Chlorine Residual (H3=past HT not complian

201501070229 AP-1-20150105
201501070230 QCEB-1-20150105
201501070231 FP-3-20150106
201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/07/2015

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 812961 - Surfactants

201501070229 AP-1-20150105
201501070230 QCEB-1-20150105
201501070231 FP-3-20150106

Analysis Date: 01/07/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 812962 - Surfactants

201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/07/2015

Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813075 - Quantitray Coliforms 18 Hour

201501070652 EP-3-20150106
201501070653 QCEB-2-20150106

Analysis Date: 01/08/2015

Analyzed by: JM0D
Analyzed by: JM0D

QC Ref # 813105 - ICPMS Metals

201501070230 QCEB-1-20150105

Analysis Date: 01/08/2015

Analyzed by: SXX

QC Ref # 813119 - Alkalinity in CaCO3 units

Analysis Date: 01/08/2015

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Crystal Geysler Roxane

201501070229	AP-1-20150105	Analyzed by: 6Q4
201501070230	QCEB-1-20150105	Analyzed by: 6Q4
201501070231	FP-3-20150106	Analyzed by: 6Q4
QC Ref # 813120 - PH (H3=past HT not compliant)		Analysis Date: 01/08/2015
201501070229	AP-1-20150105	Analyzed by: 6Q4
201501070230	QCEB-1-20150105	Analyzed by: 6Q4
201501070231	FP-3-20150106	Analyzed by: 6Q4
QC Ref # 813140 - Free Chlorine Residual (H3=past HT not compliant)		Analysis Date: 01/07/2015
201501070229	AP-1-20150105	Analyzed by: NJR
201501070230	QCEB-1-20150105	Analyzed by: NJR
201501070231	FP-3-20150106	Analyzed by: NJR
201501070652	EP-3-20150106	Analyzed by: NJR
201501070653	QCEB-2-20150106	Analyzed by: NJR
QC Ref # 813146 - Alkalinity in CaCO3 units		Analysis Date: 01/08/2015
201501070652	EP-3-20150106	Analyzed by: 6Q4
201501070653	QCEB-2-20150106	Analyzed by: 6Q4
QC Ref # 813148 - PH (H3=past HT not compliant)		Analysis Date: 01/08/2015
201501070652	EP-3-20150106	Analyzed by: 6Q4
201501070653	QCEB-2-20150106	Analyzed by: 6Q4
QC Ref # 813151 - Total Dissolved Solids (TDS)		Analysis Date: 01/08/2015
201501070229	AP-1-20150105	Analyzed by: JRF
201501070230	QCEB-1-20150105	Analyzed by: JRF
201501070231	FP-3-20150106	Analyzed by: JRF
201501070652	EP-3-20150106	Analyzed by: JRF
201501070653	QCEB-2-20150106	Analyzed by: JRF
QC Ref # 813159 - Quantitray Coliforms		Analysis Date: 01/08/2015
201501070229	AP-1-20150105	Analyzed by: JM0D
201501070230	QCEB-1-20150105	Analyzed by: JM0D
201501070231	FP-3-20150106	Analyzed by: JM0D
QC Ref # 813171 - ICP Metals		Analysis Date: 01/08/2015
201501070230	QCEB-1-20150105	Analyzed by: NINA
QC Ref # 813185 - ICPMS Metals		Analysis Date: 01/08/2015
201501070229	AP-1-20150105	Analyzed by: AZS
201501070231	FP-3-20150106	Analyzed by: AZS
QC Ref # 813279 - ICPMS Metals		Analysis Date: 01/08/2015
201501070229	AP-1-20150105	Analyzed by: AZS
201501070231	FP-3-20150106	Analyzed by: AZS
QC Ref # 813347 - ICPMS Metals		Analysis Date: 01/09/2015
201501070653	QCEB-2-20150106	Analyzed by: SXX
QC Ref # 813388 - Total Kjeldahl Nitrogen		Analysis Date: 01/09/2015

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Crystal Geysler Roxane

201501070229	AP-1-20150105	Analyzed by: KXS
201501070230	QCEB-1-20150105	Analyzed by: KXS
201501070231	FP-3-20150106	Analyzed by: KXS
201501070652	EP-3-20150106	Analyzed by: KXS
201501070653	QCEB-2-20150106	Analyzed by: KXS
QC Ref # 813475 - ICPMS Metals		Analysis Date: 01/09/2015
201501070652	EP-3-20150106	Analyzed by: AZS
201501070653	QCEB-2-20150106	Analyzed by: AZS
QC Ref # 813505 - ICP Metals		Analysis Date: 01/09/2015
201501070653	QCEB-2-20150106	Analyzed by: NINA
QC Ref # 813673 - Chloride, Sulfate by EPA 300.0		Analysis Date: 01/11/2015
201501070229	AP-1-20150105	Analyzed by: CYP
201501070229	AP-1-20150105	Analyzed by: CYP
QC Ref # 813793 - ICP Metals		Analysis Date: 01/12/2015
201501070229	AP-1-20150105	Analyzed by: NINA
201501070231	FP-3-20150106	Analyzed by: NINA
201501070652	EP-3-20150106	Analyzed by: NINA
QC Ref # 813884 - Volatile Organics by GCMS		Analysis Date: 01/12/2015
201501070229	AP-1-20150105	Analyzed by: KAM
201501070230	QCEB-1-20150105	Analyzed by: KAM
201501070231	FP-3-20150106	Analyzed by: KAM
201501070652	EP-3-20150106	Analyzed by: KAM
201501070657	QCTB-1-20150106	Analyzed by: KAM
QC Ref # 813889 - Volatile Organics by EPA 624		Analysis Date: 01/12/2015
201501070229	AP-1-20150105	Analyzed by: KAM
201501070230	QCEB-1-20150105	Analyzed by: KAM
201501070231	FP-3-20150106	Analyzed by: KAM
201501070652	EP-3-20150106	Analyzed by: KAM
201501070657	QCTB-1-20150106	Analyzed by: KAM
QC Ref # 813928 - ICPMS Metals		Analysis Date: 01/13/2015
201501070653	QCEB-2-20150106	Analyzed by: SXX
QC Ref # 813971 - ICPMS Metals		Analysis Date: 01/12/2015
201501070652	EP-3-20150106	Analyzed by: AZS
QC Ref # 813982 - ICPMS Metals		Analysis Date: 01/12/2015
201501070652	EP-3-20150106	Analyzed by: AZS
QC Ref # 814030 - ICPMS Metals		Analysis Date: 01/13/2015
201501070230	QCEB-1-20150105	Analyzed by: AZS
201501070653	QCEB-2-20150106	Analyzed by: AZS
QC Ref # 814105 - ICPMS Metals		Analysis Date: 01/14/2015
201501070229	AP-1-20150105	Analyzed by: SXX

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Crystal Geysler Roxane

201501070230	QCEB-1-20150105	Analyzed by: SXX
201501070231	FP-3-20150106	Analyzed by: SXX
201501070652	EP-3-20150106	Analyzed by: SXX
201501070653	QCEB-2-20150106	Analyzed by: SXX
QC Ref # 814145 - Volatile Organics by GCMS		Analysis Date: 01/14/2015
201501070653	QCEB-2-20150106	Analyzed by: KAM
QC Ref # 814150 - Volatile Organics by EPA 624		Analysis Date: 01/14/2015
201501070653	QCEB-2-20150106	Analyzed by: KAM
QC Ref # 814272 - Ammonia Nitrogen		Analysis Date: 01/14/2015
201501070229	AP-1-20150105	Analyzed by: MYH
201501070230	QCEB-1-20150105	Analyzed by: MYH
201501070231	FP-3-20150106	Analyzed by: MYH
QC Ref # 814273 - Ammonia Nitrogen		Analysis Date: 01/14/2015
201501070652	EP-3-20150106	Analyzed by: MYH
201501070653	QCEB-2-20150106	Analyzed by: MYH
QC Ref # 814636 - ICPMS Metals		Analysis Date: 01/15/2015
201501070230	QCEB-1-20150105	Analyzed by: SXX
201501070231	FP-3-20150106	Analyzed by: SXX
201501070653	QCEB-2-20150106	Analyzed by: SXX
QC Ref # 814692 - ICPMS Metals		Analysis Date: 01/19/2015
201501070229	AP-1-20150105	Analyzed by: SXX
201501070652	EP-3-20150106	Analyzed by: SXX
QC Ref # 814885 - ICPMS Metals		Analysis Date: 01/19/2015
201501070652	EP-3-20150106	Analyzed by: AZS
201501070653	QCEB-2-20150106	Analyzed by: AZS
QC Ref # 815041 - Total phosphorus as P (T-P)		Analysis Date: 01/22/2015
201501070229	AP-1-20150105	Analyzed by: KXS
201501070230	QCEB-1-20150105	Analyzed by: KXS
201501070231	FP-3-20150106	Analyzed by: KXS
201501070652	EP-3-20150106	Analyzed by: KXS
201501070653	QCEB-2-20150106	Analyzed by: KXS
QC Ref # 815373 - ICPMS Metals		Analysis Date: 01/20/2015
201501070229	AP-1-20150105	Analyzed by: AZS
201501070230	QCEB-1-20150105	Analyzed by: AZS
201501070231	FP-3-20150106	Analyzed by: AZS

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 812646 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 01/07/2015			
LCS1	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0451	mg/L	90	(50-150)		
MS_201501070067	Nitrate as Nitrogen by IC	2.5	1.3	3.72	mg/L	99	(80-120)		
MS_201501070078	Nitrate as Nitrogen by IC	0.11	1.3	1.35	mg/L	99	(80-120)		
MSD_201501070067	Nitrate as Nitrogen by IC	2.5	1.3	3.71	mg/L	98	(80-120)	20	0.27
MSD_201501070078	Nitrate as Nitrogen by IC	0.11	1.3	1.36	mg/L	100	(80-120)	20	0.74
LCS1	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0487	mg/L	97	(50-150)		
MS_201501070067	Nitrite Nitrogen by IC	ND	0.5	0.502	mg/L	100	(80-120)		
MS_201501070078	Nitrite Nitrogen by IC	ND	0.5	0.516	mg/L	103	(80-120)		
MSD_201501070067	Nitrite Nitrogen by IC	ND	0.5	0.506	mg/L	101	(80-120)	20	0.79
MSD_201501070078	Nitrite Nitrogen by IC	ND	0.5	0.520	mg/L	104	(80-120)	20	0.77
QC Ref# 812649 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 01/07/2015			
LCS1	Chloride		25	24.2	mg/L	97	(90-110)		
LCS2	Chloride		25	24.3	mg/L	97	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.420	mg/L	84	(50-150)		
MS_201501070078	Chloride	4.0	13	16.8	mg/L	102	(80-120)		
MS_201501070719	Chloride	5.7	13	18.5	mg/L	102	(80-120)		
MSD_201501070078	Chloride	4.0	13	16.9	mg/L	103	(80-120)	20	0.59
MSD_201501070719	Chloride	5.7	13	18.5	mg/L	102	(80-120)	20	0.0
LCS1	Sulfate		50	50.9	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.0	mg/L	102	(90-110)	20	0.20
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.950	mg/L	95	(50-150)		
MRLLW	Sulfate		0.25	0.251	mg/L	101	(50-150)		
MS_201501070078	Sulfate	28	25	54.0	mg/L	105	(80-120)		
MS_201501070719	Sulfate	12	25	38.0	mg/L	104	(80-120)		
MSD_201501070078	Sulfate	28	25	54.3	mg/L	106	(80-120)	20	0.37
MSD_201501070719	Sulfate	12	25	38.0	mg/L	104	(80-120)	20	0.0
QC Ref# 812933 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 01/07/2015			
LCS1	Nitrate as Nitrogen by IC		2.5	2.46	mg/L	98	(90-110)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Nitrate as Nitrogen by IC		2.5	2.44	mg/L	98	(90-110)	20	0.82
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0491	mg/L	98	(50-150)		
MS_201501070496	Nitrate as Nitrogen by IC	0.40	1.3	2.06	mg/L	133	(80-120)		
MS_201501070685	Nitrate as Nitrogen by IC	14	1.3	19.8	mg/L	98	(80-120)		
MSD_201501070496	Nitrate as Nitrogen by IC	0.40	1.3	2.05	mg/L	132	(80-120)	20	0.49
MSD_201501070685	Nitrate as Nitrogen by IC	14	1.3	19.9	mg/L	99	(80-120)	20	0.50
LCS1	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0495	mg/L	99	(50-150)		
MS_201501070496	Nitrite Nitrogen by IC	ND	0.5	0.0842	mg/L	17	(80-120)		
MS_201501070685	Nitrite Nitrogen by IC	ND	0.5	2.34	mg/L	94	(80-120)		
MSD_201501070496	Nitrite Nitrogen by IC	ND	0.5	0.0861	mg/L	17	(80-120)	20	2.2
MSD_201501070685	Nitrite Nitrogen by IC	ND	0.5	2.37	mg/L	95	(80-120)	20	1.3

QC Ref# 812934 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 01/07/2015

LCS1	Chloride		25	24.7	mg/L	99	(90-110)		
LCS2	Chloride		25	24.6	mg/L	98	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.424	mg/L	85	(50-150)		
MS_201501070496	Chloride	12	13	25.2	mg/L	109	(80-120)		
MSD_201501070496	Chloride	12	13	25.2	mg/L	109	(80-120)	20	0.40
LCS1	Sulfate		50	51.7	mg/L	103	(90-110)		
LCS2	Sulfate		50	51.4	mg/L	103	(90-110)	20	0.58
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.962	mg/L	96	(50-150)		
MRLW	Sulfate		0.25	0.249	mg/L	100	(50-150)		
MS_201501070496	Sulfate	5.4	25	31.5	mg/L	105	(80-120)		
MSD_201501070496	Sulfate	5.4	25	31.5	mg/L	105	(80-120)	20	0.0

QC Ref# 812937 - Orthophosphate as P (OPO4) by 4500P-E/365.1

Analysis Date: 01/07/2015

LCS1	Orthophosphate as P		0.25	0.255	mg/L	102	(90-110)		
LCS2	Orthophosphate as P		0.25	0.258	mg/L	103	(90-110)	20	1.2
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.00900	mg/L	90	(50-150)		
MS_201501070044	Orthophosphate as P	ND	0.5	0.524	mg/L	103	(90-110)		
MS_201501070089	Orthophosphate as P	ND	0.5	0.512	mg/L	101	(90-110)		
MSD_201501070044	Orthophosphate as P	ND	0.5	0.525	mg/L	103	(90-110)	20	0.19

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501070089	Orthophosphate as P	ND	0.5	0.511	mg/L	101	(90-110)	20	0.20
QC Ref# 812939 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 01/07/2015			
LCS1	Orthophosphate as P		0.25	0.237	mg/L	95	(90-110)		
LCS2	Orthophosphate as P		0.25	0.251	mg/L	100	(90-110)	20	5.7
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.00700	mg/L	70	(50-150)		
MS_201501070653	Orthophosphate as P	ND	0.5	0.504	mg/L	101	(90-110)		
MSD_201501070653	Orthophosphate as P	ND	0.5	0.510	mg/L	102	(90-110)	20	1.2
QC Ref# 812960 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 01/07/2015			
LCS1	Total Chlorine Residual		1.0	0.940	mg/L	94	(85-115)		
LCS2	Total Chlorine Residual		1.0	0.990	mg/L	99	(85-115)	20	5.2
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 812961 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 01/07/2015			
LCS1	Surfactants		0.2	0.193	mg/L	96	(90-110)		
LCS2	Surfactants		0.2	0.189	mg/L	95	(90-110)	20	2.1
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0297	mg/L	59	(50-150)		
MS_201501060850	Surfactants	ND	0.2	0.134	mg/L	<u>67</u>	(80-120)		
MSD_201501060850	Surfactants	ND	0.2	0.159	mg/L	<u>79</u>	(80-120)	20	17
QC Ref# 812962 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 01/07/2015			
LCS1	Surfactants		0.2	0.216	mg/L	108	(90-110)		
LCS2	Surfactants		0.2	0.197	mg/L	98	(90-110)	20	9.2
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0714	mg/L	143	(50-150)		
MS_201501070118	Surfactants	ND	0.2	0.250	mg/L	109	(80-120)		
MSD_201501070118	Surfactants	ND	0.2	0.225	mg/L	97	(80-120)	20	11
QC Ref# 813105 - ICPMS Metals by EPA 200.8						Analysis Date: 01/08/2015			
LCS1	Antimony Total ICAP/MS		50	47.4	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.0	ug/L	94	(85-115)	20	0.85
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.953	ug/L	95	(50-150)		
MS_201412310019	Antimony Total ICAP/MS	ND	50	49.5	ug/L	99	(70-130)		
MS2_201412310124	Antimony Total ICAP/MS	ND	50	51.5	ug/L	102	(70-130)		
MS2_201412310124	Antimony Total ICAP/MS	ND	50	51.5	ug/L	102	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412310019	Antimony Total ICAP/MS	ND	50	57.0	ug/L	114	(70-130)	20	14
MSD2_201412310124	Antimony Total ICAP/MS	ND	50	52.2	ug/L	103	(70-130)	20	1.4
MSD2_201412310124	Antimony Total ICAP/MS	ND	50	52.2	ug/L	103	(70-130)	20	1.4
LCS1	Arsenic Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.1	ug/L	101	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201412310019	Arsenic Total ICAP/MS	1.0	20	22.5	ug/L	113	(70-130)		
MS2_201412310124	Arsenic Total ICAP/MS	ND	20	23.4	ug/L	113	(70-130)		
MS2_201412310124	Arsenic Total ICAP/MS	ND	20	23.4	ug/L	113	(70-130)		
MSD_201412310019	Arsenic Total ICAP/MS	1.0	20	25.6	ug/L	128	(70-130)	20	13
MSD2_201412310124	Arsenic Total ICAP/MS	ND	20	24.1	ug/L	116	(70-130)	20	3.0
MSD2_201412310124	Arsenic Total ICAP/MS	ND	20	24.1	ug/L	116	(70-130)	20	3.0
LCS1	Barium Total ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Barium Total ICAP/MS		100	95.7	ug/L	96	(85-115)	20	1.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412310019	Barium Total ICAP/MS	53	100	158	ug/L	158	(70-130)		
MS2_201412310124	Barium Total ICAP/MS	54	100	162	ug/L	103	(70-130)		
MS2_201412310124	Barium Total ICAP/MS	59	100	162	ug/L	103	(70-130)		
MSD_201412310019	Barium Total ICAP/MS	53	100	174	ug/L	174	(70-130)	20	9.6
MSD2_201412310124	Barium Total ICAP/MS	54	100	162	ug/L	104	(70-130)	20	0.0
MSD2_201412310124	Barium Total ICAP/MS	59	100	162	ug/L	104	(70-130)	20	0.0
LCS1	Beryllium Total ICAP/MS		5.0	4.80	ug/L	96	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.79	ug/L	96	(85-115)	20	0.21
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.00	ug/L	100	(50-150)		
MS_201412310019	Beryllium Total ICAP/MS	ND	5.0	5.42	ug/L	108	(70-130)		
MS2_201412310124	Beryllium Total ICAP/MS	ND	5.0	5.94	ug/L	119	(70-130)		
MS2_201412310124	Beryllium Total ICAP/MS	ND	5.0	5.94	ug/L	119	(70-130)		
MSD_201412310019	Beryllium Total ICAP/MS	ND	5.0	6.33	ug/L	127	(70-130)	20	16
MSD2_201412310124	Beryllium Total ICAP/MS	ND	5.0	5.95	ug/L	119	(70-130)	20	0.17
MSD2_201412310124	Beryllium Total ICAP/MS	ND	5.0	5.95	ug/L	119	(70-130)	20	0.17
LCS1	Cadmium Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	2.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.584	ug/L	117	(50-150)		
MS_201412310019	Cadmium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412310124	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MS2_201412310124	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201412310019	Cadmium Total ICAP/MS	ND	20	23.4	ug/L	117	(70-130)	20	18
MSD2_201412310124	Cadmium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	3.0
MSD2_201412310124	Cadmium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	3.0
LCS1	Chromium Total ICAP/MS		100	99.9	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.10
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.987	ug/L	99	(50-150)		
MS_201412310019	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MS2_201412310124	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MS2_201412310124	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MSD_201412310019	Chromium Total ICAP/MS	ND	100	122	ug/L	122	(70-130)	20	16
MSD2_201412310124	Chromium Total ICAP/MS	ND	100	109	ug/L	108	(70-130)	20	2.8
MSD2_201412310124	Chromium Total ICAP/MS	ND	100	109	ug/L	108	(70-130)	20	2.8
LCS1	Cobalt Total ICAP/MS		100	98.6	ug/L	99	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	0.20
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201412310019	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)		
MS2_201412310124	Cobalt Total ICAP/MS	ND	100	103	ug/L	102	(70-130)		
MSD_201412310019	Cobalt Total ICAP/MS	ND	100	113	ug/L	112	(70-130)	20	15
MSD2_201412310124	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.98
LCS1	Copper Total ICAP/MS		100	94.1	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	93.9	ug/L	94	(85-115)	20	0.21
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412310019	Copper Total ICAP/MS	ND	100	94.0	ug/L	94	(70-130)		
MS2_201412310124	Copper Total ICAP/MS	2.3	100	99.2	ug/L	96	(70-130)		
MS2_201412310124	Copper Total ICAP/MS	3.1	100	99.2	ug/L	96	(70-130)		
MSD_201412310019	Copper Total ICAP/MS	ND	100	109	ug/L	109	(70-130)	20	15
MSD2_201412310124	Copper Total ICAP/MS	2.3	100	99.3	ug/L	96	(70-130)	20	0.10
MSD2_201412310124	Copper Total ICAP/MS	3.1	100	99.3	ug/L	96	(70-130)	20	0.10
LCS1	Lead Total ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Lead Total ICAP/MS		20	18.7	ug/L	94	(85-115)	20	0.54
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.466	ug/L	93	(50-150)		
MS_201412310019	Lead Total ICAP/MS	ND	20	18.5	ug/L	93	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412310124	Lead Total ICAP/MS	ND	20	19.0	ug/L	94	(70-130)		
MS2_201412310124	Lead Total ICAP/MS	ND	20	19.0	ug/L	94	(70-130)		
MSD_201412310019	Lead Total ICAP/MS	ND	20	21.7	ug/L	108	(70-130)	20	16
MSD2_201412310124	Lead Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)	20	1.6
MSD2_201412310124	Lead Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)	20	1.6
LCS1	Molybdenum Total ICAP/MS		100	98.0	ug/L	98	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.20
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.92	ug/L	96	(50-150)		
MS_201412310019	Molybdenum Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201412310124	Molybdenum Total ICAP/MS	7.2	100	111	ug/L	104	(70-130)		
MSD_201412310019	Molybdenum Total ICAP/MS	ND	100	122	ug/L	120	(70-130)	20	18
MSD2_201412310124	Molybdenum Total ICAP/MS	7.2	100	114	ug/L	107	(70-130)	20	2.7
LCS1	Nickel Total ICAP/MS		50	46.3	ug/L	93	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.8	ug/L	94	(85-115)	20	1.1
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.78	ug/L	96	(50-150)		
MS_201412310019	Nickel Total ICAP/MS	ND	50	45.8	ug/L	92	(70-130)		
MS2_201412310124	Nickel Total ICAP/MS	ND	50	51.0	ug/L	95	(70-130)		
MS2_201412310124	Nickel Total ICAP/MS	ND	50	51.0	ug/L	95	(70-130)		
MSD_201412310019	Nickel Total ICAP/MS	ND	50	53.7	ug/L	107	(70-130)	20	16
MSD2_201412310124	Nickel Total ICAP/MS	ND	50	51.1	ug/L	95	(70-130)	20	0.20
MSD2_201412310124	Nickel Total ICAP/MS	ND	50	51.1	ug/L	95	(70-130)	20	0.20
LCS1	Selenium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.93	ug/L	99	(50-150)		
MS_201412310019	Selenium Total ICAP/MS	ND	20	24.0	ug/L	120	(70-130)		
MS2_201412310124	Selenium Total ICAP/MS	ND	20	23.6	ug/L	116	(70-130)		
MS2_201412310124	Selenium Total ICAP/MS	ND	20	23.6	ug/L	116	(70-130)		
MSD_201412310019	Selenium Total ICAP/MS	ND	20	26.7	ug/L	134	(70-130)	20	11
MSD2_201412310124	Selenium Total ICAP/MS	ND	20	22.7	ug/L	112	(70-130)	20	3.9
MSD2_201412310124	Selenium Total ICAP/MS	ND	20	22.7	ug/L	112	(70-130)	20	3.9
LCS1	Thallium Total ICAP/MS		20	18.8	ug/L	94	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	1.1
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.946	ug/L	95	(50-150)		
MS_201412310019	Thallium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412310124	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MS2_201412310124	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MSD_201412310019	Thallium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	11
MSD2_201412310124	Thallium Total ICAP/MS	ND	20	18.9	ug/L	95	(70-130)	20	0.53
MSD2_201412310124	Thallium Total ICAP/MS	ND	20	18.9	ug/L	95	(70-130)	20	0.53
LCS1	Vanadium Total ICAP/MS		100	99.0	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.8	ug/L	100	(85-115)	20	0.81
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.00	ug/L	100	(50-150)		
MS_201412310019	Vanadium Total ICAP/MS	ND	100	108	ug/L	106	(70-130)		
MS2_201412310124	Vanadium Total ICAP/MS	ND	100	112	ug/L	110	(70-130)		
MSD_201412310019	Vanadium Total ICAP/MS	ND	100	125	ug/L	123	(70-130)	20	15
MSD2_201412310124	Vanadium Total ICAP/MS	ND	100	112	ug/L	110	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	99.3	ug/L	99	(85-115)		
LCS2	Zinc Total ICAP/MS		100	99.4	ug/L	99	(85-115)	20	0.10
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.4	ug/L	102	(50-150)		
MS_201412310019	Zinc Total ICAP/MS	ND	100	108	ug/L	108	(70-130)		
MS2_201412310124	Zinc Total ICAP/MS	53	100	163	ug/L	107	(70-130)		
MS2_201412310124	Zinc Total ICAP/MS	56	100	163	ug/L	107	(70-130)		
MSD_201412310019	Zinc Total ICAP/MS	ND	100	125	ug/L	125	(70-130)	20	15
MSD2_201412310124	Zinc Total ICAP/MS	53	100	163	ug/L	107	(70-130)	20	0.0
MSD2_201412310124	Zinc Total ICAP/MS	56	100	163	ug/L	107	(70-130)	20	0.0

QC Ref# 813119 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 01/08/2015

LCS1	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	100	mg/L	100	(90-110)	20	0.50
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.89	mg/L	95	(50-150)		
MS_201501070040	Alkalinity in CaCO3 units	320	100	425	mg/L	100	(80-120)		
MS_201501070089	Alkalinity in CaCO3 units	120	100	211	mg/L	86	(80-120)		
MSD_201501070040	Alkalinity in CaCO3 units	320	100	423	mg/L	99	(80-120)	20	0.47
MSD_201501070089	Alkalinity in CaCO3 units	120	100	210	mg/L	85	(80-120)	20	0.48

QC Ref# 813120 - PH (H3=past HT not compliant) by SM4500-HB

Analysis Date: 01/08/2015

DUP_201501070040	PH (H3=past HT not compliant)	7.6	0.01	7.63	Units		(0-20)	20	0.26
DUP_201501070089	PH (H3=past HT not compliant)	8.0	0.01	8.04	Units		(0-20)	20	0.25
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813140 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH						Analysis Date: 01/07/2015			
LCS1	Free Chlorine Residual		1.0	0.920	mg/L	92	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)	20	3.2
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.100	mg/L	100	(50-150)		
QC Ref# 813146 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 01/08/2015			
LCS1	Alkalinity in CaCO3 units		100	99.6	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.7	mg/L	100	(90-110)	20	0.10
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.95	mg/L	98	(50-150)		
MS_201501070150	Alkalinity in CaCO3 units	120	100	210	mg/L	92	(80-120)		
MS_201501070415	Alkalinity in CaCO3 units	82	100	172	mg/L	90	(80-120)		
MSD_201501070150	Alkalinity in CaCO3 units	120	100	212	mg/L	94	(80-120)	20	0.95
MSD_201501070415	Alkalinity in CaCO3 units	82	100	172	mg/L	90	(80-120)	20	0.0
QC Ref# 813148 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 01/08/2015			
DUP_201501070150	PH (H3=past HT not compliant)	7.9	0.01	7.98	Units		(0-20)	20	0.63
DUP_201501070415	PH (H3=past HT not compliant)	8.0	0.01	8.03	Units		(0-20)	20	0.25
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 813151 - Total Dissolved Solids (TDS) by E160.1/SM2540C						Analysis Date: 01/08/2015			
DUP_201501060702	Total Dissolved Solid (TDS)	400		390	mg/L		(0-20)	20	2.0
DUP_201501070654	Total Dissolved Solid (TDS)	290		286	mg/L		(0-20)	20	1.4
LCS1	Total Dissolved Solid (TDS)		175	162	mg/L	93	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	684	mg/L	98	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		
QC Ref# 813171 - ICP Metals by EPA 200.7						Analysis Date: 01/08/2015			
LCS1	Calcium Total ICAP		50	48.7	mg/L	97	(85-115)		
LCS2	Calcium Total ICAP		50	48.9	mg/L	98	(85-115)	20	0.41
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.954	mg/L	95	(50-150)		
MS_201501070412	Calcium Total ICAP	96	50	142	mg/L	92	(70-130)		
MS2_201501060703	Calcium Total ICAP	48	50	94.9	mg/L	94	(70-130)		
MSD_201501070412	Calcium Total ICAP	96	50	144	mg/L	95	(70-130)	20	1.4
MSD2_201501060703	Calcium Total ICAP	48	50	95.8	mg/L	96	(70-130)	20	0.94

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Magnesium Total ICAP		20	19.8	mg/L	99	(85-115)		
LCS2	Magnesium Total ICAP		20	20.0	mg/L	100	(85-115)	20	1.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0998	mg/L	100	(50-150)		
MS_201501070412	Magnesium Total ICAP	25	20	44.7	mg/L	99	(70-130)		
MS2_201501060703	Magnesium Total ICAP	5.4	20	25.5	mg/L	100	(70-130)		
MSD_201501070412	Magnesium Total ICAP	25	20	45.1	mg/L	101	(70-130)	20	0.89
MSD2_201501060703	Magnesium Total ICAP	5.4	20	25.9	mg/L	102	(70-130)	20	1.6
LCS1	Sodium Total ICAP		50	49.1	mg/L	98	(85-115)		
LCS2	Sodium Total ICAP		50	49.1	mg/L	98	(85-115)	20	0.0
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.971	mg/L	97	(50-150)		
MS_201501070412	Sodium Total ICAP	50	50	98.8	mg/L	97	(70-130)		
MS2_201501060703	Sodium Total ICAP	48	50	96.5	mg/L	97	(70-130)		
MSD_201501070412	Sodium Total ICAP	50	50	100	mg/L	100	(70-130)	20	1.2
MSD2_201501060703	Sodium Total ICAP	48	50	97.7	mg/L	99	(70-130)	20	1.2

QC Ref# 813185 - ICPMS Metals by EPA 200.8

Analysis Date: 01/08/2015

LCS1	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	0.60
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.32	ug/L	132	(50-150)		
MS_201412310093	Antimony Total ICAP/MS	1.9	50	52.6	ug/L	101	(70-130)		
MS2_201501060850	Antimony Total ICAP/MS	ND	50	52.0	ug/L	103	(70-130)		
MSD_201412310093	Antimony Total ICAP/MS	1.9	50	52.2	ug/L	101	(70-130)	20	0.76
MSD2_201501060850	Antimony Total ICAP/MS	ND	50	50.9	ug/L	101	(70-130)	20	2.1
LCS1	Arsenic Total ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	0.52
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.877	ug/L	88	(50-150)		
MS_201412310093	Arsenic Total ICAP/MS	ND	20	20.9	ug/L	101	(70-130)		
MS2_201501060850	Arsenic Total ICAP/MS	12	20	30.5	ug/L	95	(70-130)		
MSD_201412310093	Arsenic Total ICAP/MS	ND	20	20.7	ug/L	100	(70-130)	20	0.96
MSD2_201501060850	Arsenic Total ICAP/MS	12	20	30.7	ug/L	96	(70-130)	20	0.65
LCS1	Barium Total ICAP/MS		100	92.7	ug/L	93	(85-115)		
LCS2	Barium Total ICAP/MS		100	91.8	ug/L	92	(85-115)	20	0.98
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.89	ug/L	95	(50-150)		
MS_201412310093	Barium Total ICAP/MS	47	100	146	ug/L	99	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501060850	Barium Total ICAP/MS	11	100	103	ug/L	92	(70-130)		
MSD_201412310093	Barium Total ICAP/MS	47	100	147	ug/L	99	(70-130)	20	0.68
MSD2_201501060850	Barium Total ICAP/MS	11	100	102	ug/L	92	(70-130)	20	0.0
LCS1	Beryllium Total ICAP/MS		5.0	4.60	ug/L	92	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.67	ug/L	93	(85-115)	20	1.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201412310093	Beryllium Total ICAP/MS	ND	5.0	4.42	ug/L	88	(70-130)		
MS2_201501060850	Beryllium Total ICAP/MS	ND	5.0	4.40	ug/L	88	(70-130)		
MSD_201412310093	Beryllium Total ICAP/MS	ND	5.0	4.54	ug/L	90	(70-130)	20	2.7
MSD2_201501060850	Beryllium Total ICAP/MS	ND	5.0	4.29	ug/L	85	(70-130)	20	2.5
LCS1	Cadmium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.496	ug/L	99	(50-150)		
MS_201412310093	Cadmium Total ICAP/MS	4700	20	5180	ug/L	2330	(70-130)		
MS2_201501060850	Cadmium Total ICAP/MS	1.0	20	19.9	ug/L	94	(70-130)		
MSD_201412310093	Cadmium Total ICAP/MS	4700	20	4780	ug/L	312	(70-130)	20	8.0
MSD2_201501060850	Cadmium Total ICAP/MS	1.0	20	19.3	ug/L	92	(70-130)	20	3.1
LCS1	Chromium Total ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Chromium Total ICAP/MS		100	95.5	ug/L	96	(85-115)	20	1.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201412310093	Chromium Total ICAP/MS	1.4	100	102	ug/L	101	(70-130)		
MS2_201501060850	Chromium Total ICAP/MS	2.2	100	103	ug/L	101	(70-130)		
MSD_201412310093	Chromium Total ICAP/MS	1.4	100	102	ug/L	100	(70-130)	20	0.0
MSD2_201501060850	Chromium Total ICAP/MS	2.2	100	100	ug/L	98	(70-130)	20	3.0
LCS1	Cobalt Total ICAP/MS		100	94.3	ug/L	94	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	95.4	ug/L	95	(85-115)	20	1.2
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.01	ug/L	101	(50-150)		
MS_201412310093	Cobalt Total ICAP/MS	ND	100	98.8	ug/L	98	(70-130)		
MS2_201501060850	Cobalt Total ICAP/MS	ND	100	94.3	ug/L	94	(70-130)		
MSD_201412310093	Cobalt Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)	20	0.71
MSD2_201501060850	Cobalt Total ICAP/MS	ND	100	94.3	ug/L	94	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	96.9	ug/L	97	(85-115)		
LCS2	Copper Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	0.52
MBLK	Copper Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Copper Total ICAP/MS		2.0	2.12	ug/L	106	(50-150)		
MS_201412310093	Copper Total ICAP/MS	180	100	273	ug/L	95	(70-130)		
MS2_201501060850	Copper Total ICAP/MS	4.9	100	96.1	ug/L	91	(70-130)		
MSD_201412310093	Copper Total ICAP/MS	180	100	276	ug/L	98	(70-130)	20	1.1
MSD2_201501060850	Copper Total ICAP/MS	4.9	100	97.0	ug/L	92	(70-130)	20	0.93
LCS1	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.537	ug/L	107	(50-150)		
MS_201412310093	Lead Total ICAP/MS	5.9	20	27.1	ug/L	106	(70-130)		
MS2_201501060850	Lead Total ICAP/MS	ND	20	21.2	ug/L	104	(70-130)		
MSD_201412310093	Lead Total ICAP/MS	5.9	20	26.9	ug/L	105	(70-130)	20	0.74
MSD2_201501060850	Lead Total ICAP/MS	ND	20	21.4	ug/L	105	(70-130)	20	0.94
LCS1	Molybdenum Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	108	ug/L	108	(85-115)	20	2.8
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201412310093	Molybdenum Total ICAP/MS	14	100	135	ug/L	121	(70-130)		
MS2_201501060850	Molybdenum Total ICAP/MS	37	100	152	ug/L	108	(70-130)		
MSD_201412310093	Molybdenum Total ICAP/MS	14	100	133	ug/L	120	(70-130)	20	1.5
MSD2_201501060850	Molybdenum Total ICAP/MS	37	100	156	ug/L	112	(70-130)	20	2.6
LCS1	Nickel Total ICAP/MS		50	48.9	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)	20	1.4
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.14	ug/L	103	(50-150)		
MS_201412310093	Nickel Total ICAP/MS	10	50	58.8	ug/L	98	(70-130)		
MS2_201501060850	Nickel Total ICAP/MS	ND	50	48.6	ug/L	95	(70-130)		
MSD_201412310093	Nickel Total ICAP/MS	10	50	58.6	ug/L	97	(70-130)	20	0.34
MSD2_201501060850	Nickel Total ICAP/MS	ND	50	48.8	ug/L	96	(70-130)	20	0.41
LCS1	Selenium Total ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.6	ug/L	93	(85-115)	20	0.54
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201412310093	Selenium Total ICAP/MS	ND	20	23.0	ug/L	106	(70-130)		
MS2_201501060850	Selenium Total ICAP/MS	ND	20	19.7	ug/L	94	(70-130)		
MSD_201412310093	Selenium Total ICAP/MS	ND	20	22.2	ug/L	103	(70-130)	20	3.5
MSD2_201501060850	Selenium Total ICAP/MS	ND	20	19.8	ug/L	94	(70-130)	20	0.51
LCS1	Silver Total ICAP/MS		50	47.7	ug/L	95	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Silver Total ICAP/MS		50	48.2	ug/L	97	(85-115)	20	1.0
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.529	ug/L	106	(50-150)		
MS_201412310093	Silver Total ICAP/MS	0.70	50	44.7	ug/L	88	(70-130)		
MS2_201501060850	Silver Total ICAP/MS	ND	50	44.9	ug/L	90	(70-130)		
MSD_201412310093	Silver Total ICAP/MS	0.70	50	44.4	ug/L	87	(70-130)	20	0.67
MSD2_201501060850	Silver Total ICAP/MS	ND	50	44.3	ug/L	89	(70-130)	20	1.4
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.51
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201412310093	Thallium Total ICAP/MS	ND	20	21.4	ug/L	106	(70-130)		
MS2_201501060850	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201412310093	Thallium Total ICAP/MS	ND	20	21.4	ug/L	106	(70-130)	20	0.0
MSD2_201501060850	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.0
LCS1	Vanadium Total ICAP/MS		100	94.4	ug/L	94	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	94.6	ug/L	95	(85-115)	20	0.21
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.85	ug/L	95	(50-150)		
MS_201412310093	Vanadium Total ICAP/MS	3.2	100	109	ug/L	106	(70-130)		
MS2_201501060850	Vanadium Total ICAP/MS	5.2	100	106	ug/L	101	(70-130)		
MSD_201412310093	Vanadium Total ICAP/MS	3.2	100	108	ug/L	105	(70-130)	20	0.92
MSD2_201501060850	Vanadium Total ICAP/MS	5.2	100	105	ug/L	100	(70-130)	20	0.95
LCS1	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	25.9	ug/L	129	(50-150)		
MS_201412310093	Zinc Total ICAP/MS	120	100	224	ug/L	101	(70-130)		
MS2_201501060850	Zinc Total ICAP/MS	ND	100	113	ug/L	95	(70-130)		
MSD_201412310093	Zinc Total ICAP/MS	120	100	228	ug/L	106	(70-130)	20	2.2
MSD2_201501060850	Zinc Total ICAP/MS	ND	100	110	ug/L	92	(70-130)	20	2.7

QC Ref# 813279 - ICPMS Metals by EPA 200.8

Analysis Date: 01/08/2015

LCS1	Molybdenum Total ICAP/MS		100	99.0	ug/L	99	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	98.5	ug/L	99	(85-115)	20	0.51
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.96	ug/L	98	(50-150)		
MS_201501060850	Molybdenum Total ICAP/MS	37	100	127	ug/L	90	(70-130)		
MSD_201501060850	Molybdenum Total ICAP/MS	37	100	129	ug/L	92	(70-130)	20	1.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813347 - ICPMS Metals by EPA 200.8						Analysis Date: 01/09/2015			
LCS1	Antimony Total ICAP/MS		50	50.0	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.8	ug/L	102	(85-115)	20	1.6
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501080312	Antimony Total ICAP/MS	ND	50	49.1	ug/L	98	(70-130)		
MS2_201501070241	Antimony Total ICAP/MS	ND	50	45.5	ug/L	90	(70-130)		
MS2_201501070241	Antimony Total ICAP/MS	ND	50	45.5	ug/L	90	(70-130)		
MSD_201501080312	Antimony Total ICAP/MS	ND	50	49.4	ug/L	99	(70-130)	20	0.61
MSD2_201501070241	Antimony Total ICAP/MS	ND	50	53.4	ug/L	106	(70-130)	20	16
MSD2_201501070241	Antimony Total ICAP/MS	ND	50	53.4	ug/L	106	(70-130)	20	16
LCS1	Arsenic Total ICAP/MS		20	22.4	ug/L	112	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	22.4	ug/L	112	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201501080312	Arsenic Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)		
MS2_201501070241	Arsenic Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201501080312	Arsenic Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)	20	0.0
MSD2_201501070241	Arsenic Total ICAP/MS	ND	20	22.6	ug/L	112	(70-130)	20	13
LCS1	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.98
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201501080312	Barium Total ICAP/MS	110	100	215	ug/L	103	(70-130)		
MS2_201501070241	Barium Total ICAP/MS	110	100	192	ug/L	79	(70-130)		
MS2_201501070241	Barium Total ICAP/MS	110	100	192	ug/L	79	(70-130)		
MSD_201501080312	Barium Total ICAP/MS	110	100	213	ug/L	100	(70-130)	20	0.94
MSD2_201501070241	Barium Total ICAP/MS	110	100	220	ug/L	108	(70-130)	20	14
MSD2_201501070241	Barium Total ICAP/MS	110	100	220	ug/L	108	(70-130)	20	14
LCS1	Beryllium Total ICAP/MS		5.0	5.14	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.26	ug/L	105	(85-115)	20	2.3
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501080312	Beryllium Total ICAP/MS	ND	5.0	5.51	ug/L	110	(70-130)		
MS2_201501070241	Beryllium Total ICAP/MS	ND	5.0	5.59	ug/L	111	(70-130)		
MS2_201501070241	Beryllium Total ICAP/MS	ND	5.0	5.59	ug/L	111	(70-130)		
MSD_201501080312	Beryllium Total ICAP/MS	ND	5.0	5.67	ug/L	113	(70-130)	20	2.9

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501070241	Beryllium Total ICAP/MS	ND	5.0	6.21	ug/L	124	(70-130)	20	11
MSD2_201501070241	Beryllium Total ICAP/MS	ND	5.0	6.21	ug/L	124	(70-130)	20	11
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	2.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.529	ug/L	106	(50-150)		
MS_201501080312	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MS2_201501070241	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MS2_201501070241	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201501080312	Cadmium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	0.50
MSD2_201501070241	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	13
MSD2_201501070241	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	13
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	4.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.08	ug/L	108	(50-150)		
MS_201501080312	Chromium Total ICAP/MS	1.1	100	103	ug/L	102	(70-130)		
MS2_201501070241	Chromium Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)		
MS2_201501070241	Chromium Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)		
MSD_201501080312	Chromium Total ICAP/MS	1.1	100	102	ug/L	101	(70-130)	20	0.98
MSD2_201501070241	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	12
MSD2_201501070241	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	12
LCS1	Cobalt Total ICAP/MS		100	98.0	ug/L	98	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)	20	5.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.02	ug/L	101	(50-150)		
MS_201501080312	Cobalt Total ICAP/MS	ND	100	94.4	ug/L	94	(70-130)		
MS2_201501070241	Cobalt Total ICAP/MS	ND	100	88.8	ug/L	89	(70-130)		
MSD_201501080312	Cobalt Total ICAP/MS	ND	100	94.3	ug/L	94	(70-130)	20	0.11
MSD2_201501070241	Cobalt Total ICAP/MS	ND	100	97.8	ug/L	98	(70-130)	20	9.7
LCS1	Copper Total ICAP/MS		100	97.0	ug/L	97	(85-115)		
LCS2	Copper Total ICAP/MS		100	96.8	ug/L	97	(85-115)	20	0.21
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.93	ug/L	97	(50-150)		
MS_201501080312	Copper Total ICAP/MS	ND	100	93.8	ug/L	94	(70-130)		
MS2_201501070241	Copper Total ICAP/MS	48	100	130	ug/L	82	(70-130)		
MS2_201501070241	Copper Total ICAP/MS	49	100	130	ug/L	82	(70-130)		
MSD_201501080312	Copper Total ICAP/MS	ND	100	93.9	ug/L	94	(70-130)	20	0.11

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501070241	Copper Total ICAP/MS	48	100	143	ug/L	96	(70-130)	20	9.5
MSD2_201501070241	Copper Total ICAP/MS	49	100	143	ug/L	96	(70-130)	20	9.5
LCS1	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.524	ug/L	105	(50-150)		
MS_201501080312	Lead Total ICAP/MS	ND	20	19.0	ug/L	94	(70-130)		
MS2_201501070241	Lead Total ICAP/MS	ND	20	16.9	ug/L	84	(70-130)		
MS2_201501070241	Lead Total ICAP/MS	ND	20	16.9	ug/L	84	(70-130)		
MSD_201501080312	Lead Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	2.1
MSD2_201501070241	Lead Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	14
MSD2_201501070241	Lead Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	14
LCS1	Molybdenum Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.0
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.05	ug/L	103	(50-150)		
MS_201501080312	Molybdenum Total ICAP/MS	4.8	100	108	ug/L	103	(70-130)		
MS2_201501070241	Molybdenum Total ICAP/MS	4.4	100	96.1	ug/L	92	(70-130)		
MS2_201501070241	Molybdenum Total ICAP/MS	4.4	100	96.1	ug/L	92	(70-130)		
MSD_201501080312	Molybdenum Total ICAP/MS	4.8	100	107	ug/L	102	(70-130)	20	0.93
MSD2_201501070241	Molybdenum Total ICAP/MS	4.4	100	111	ug/L	107	(70-130)	20	14
MSD2_201501070241	Molybdenum Total ICAP/MS	4.4	100	111	ug/L	107	(70-130)	20	14
LCS1	Nickel Total ICAP/MS		50	50.0	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	0.20
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.03	ug/L	101	(50-150)		
MS_201501080312	Nickel Total ICAP/MS	ND	50	48.8	ug/L	92	(70-130)		
MS2_201501070241	Nickel Total ICAP/MS	ND	50	43.4	ug/L	84	(70-130)		
MS2_201501070241	Nickel Total ICAP/MS	ND	50	43.4	ug/L	84	(70-130)		
MSD_201501080312	Nickel Total ICAP/MS	ND	50	48.8	ug/L	92	(70-130)	20	0.0
MSD2_201501070241	Nickel Total ICAP/MS	ND	50	47.9	ug/L	93	(70-130)	20	9.9
MSD2_201501070241	Nickel Total ICAP/MS	ND	50	47.9	ug/L	93	(70-130)	20	9.9
LCS1	Selenium Total ICAP/MS		20	22.5	ug/L	113	(85-115)		
LCS2	Selenium Total ICAP/MS		20	22.5	ug/L	112	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	6.55	ug/L	131	(50-150)		
MS_201501080312	Selenium Total ICAP/MS	ND	20	23.3	ug/L	111	(70-130)		
MS2_201501070241	Selenium Total ICAP/MS	ND	20	21.2	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501070241	Selenium Total ICAP/MS	ND	20	21.2	ug/L	98	(70-130)		
MSD_201501080312	Selenium Total ICAP/MS	ND	20	23.4	ug/L	111	(70-130)	20	0.43
MSD2_201501070241	Selenium Total ICAP/MS	ND	20	24.1	ug/L	113	(70-130)	20	13
MSD2_201501070241	Selenium Total ICAP/MS	ND	20	24.1	ug/L	113	(70-130)	20	13
LCS1	Thallium Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.52
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501080312	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)		
MS2_201501070241	Thallium Total ICAP/MS	ND	20	15.6	ug/L	78	(70-130)		
MS2_201501070241	Thallium Total ICAP/MS	ND	20	15.6	ug/L	78	(70-130)		
MSD_201501080312	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	1.1
MSD2_201501070241	Thallium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	17
MSD2_201501070241	Thallium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	17
LCS1	Vanadium Total ICAP/MS		100	98.6	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	3.4
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201501080312	Vanadium Total ICAP/MS	4.3	100	107	ug/L	103	(70-130)		
MS2_201501070241	Vanadium Total ICAP/MS	ND	100	93.4	ug/L	93	(70-130)		
MS2_201501070241	Vanadium Total ICAP/MS	ND	100	93.4	ug/L	93	(70-130)		
MSD_201501080312	Vanadium Total ICAP/MS	4.3	100	107	ug/L	103	(70-130)	20	0.0
MSD2_201501070241	Vanadium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)	20	12
MSD2_201501070241	Vanadium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)	20	12
LCS1	Zinc Total ICAP/MS		100	104	ug/L	105	(85-115)		
LCS2	Zinc Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.95
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.7	ug/L	108	(50-150)		
MS_201501080312	Zinc Total ICAP/MS	ND	100	104	ug/L	99	(70-130)		
MS2_201501070241	Zinc Total ICAP/MS	ND	100	98.2	ug/L	92	(70-130)		
MS2_201501070241	Zinc Total ICAP/MS	ND	100	98.2	ug/L	92	(70-130)		
MSD_201501080312	Zinc Total ICAP/MS	ND	100	106	ug/L	102	(70-130)	20	1.9
MSD2_201501070241	Zinc Total ICAP/MS	ND	100	109	ug/L	103	(70-130)	20	10
MSD2_201501070241	Zinc Total ICAP/MS	ND	100	109	ug/L	103	(70-130)	20	10

QC Ref# 813388 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 01/09/2015

LCS1	Kjeldahl Nitrogen		4.0	3.76	mg/L	94	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.77	mg/L	94	(90-110)	20	0.27
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Kjeldahl Nitrogen		0.2	0.147	mg/L	74	(50-150)		
MS_201501070231	Kjeldahl Nitrogen	0.60	4.0	4.74	mg/L	103	(90-110)		
MSD_201501070231	Kjeldahl Nitrogen	0.60	4.0	4.70	mg/L	102	(90-110)	10	0.85
QC Ref# 813475 - ICPMS Metals by EPA 200.8						Analysis Date: 01/09/2015			
LCS1	Silver dissolved ICAP/MS		50	51.0	ug/L	102	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	51.5	ug/L	103	(85-115)	20	0.98
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.506	ug/L	101	(50-150)		
MS_201501070653	Silver dissolved ICAP/MS	ND	50	50.0	ug/L	100	(70-130)		
MS_201501070653	Silver dissolved ICAP/MS	ND	50	50.0	ug/L	100	(70-130)		
MS2_201501060061	Silver dissolved ICAP/MS	ND	50	30.4	ug/L	<u>61</u>	(70-130)		
MSD_201501070653	Silver dissolved ICAP/MS	ND	50	50.1	ug/L	100	(70-130)	20	0.0
MSD_201501070653	Silver dissolved ICAP/MS	ND	50	50.1	ug/L	100	(70-130)	20	0.0
MSD2_201501060061	Silver dissolved ICAP/MS	ND	50	38.1	ug/L	76	(70-130)	20	<u>23</u>
QC Ref# 813505 - ICP Metals by EPA 200.7						Analysis Date: 01/09/2015			
LCS1	Calcium Total ICAP		50	49.6	mg/L	99	(85-115)		
LCS2	Calcium Total ICAP		50	49.2	mg/L	98	(85-115)	20	0.81
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.948	mg/L	95	(50-150)		
MS_201501070653	Calcium Total ICAP	ND	50	48.0	mg/L	96	(70-130)		
MS2_201501070706	Calcium Total ICAP	41	50	88.6	mg/L	95	(70-130)		
MSD_201501070653	Calcium Total ICAP	ND	50	49.3	mg/L	99	(70-130)	20	2.7
MSD2_201501070706	Calcium Total ICAP	41	50	88.2	mg/L	94	(70-130)	20	0.56
LCS1	Magnesium Total ICAP		20	20.6	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)	20	0.98
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.102	mg/L	102	(50-150)		
MS_201501070653	Magnesium Total ICAP	ND	20	20.3	mg/L	102	(70-130)		
MS2_201501070706	Magnesium Total ICAP	9.0	20	28.7	mg/L	98	(70-130)		
MSD_201501070653	Magnesium Total ICAP	ND	20	20.5	mg/L	103	(70-130)	20	0.98
MSD2_201501070706	Magnesium Total ICAP	9.0	20	28.6	mg/L	98	(70-130)	20	0.0
LCS1	Sodium Total ICAP		50	49.6	mg/L	99	(85-115)		
LCS2	Sodium Total ICAP		50	49.2	mg/L	99	(85-115)	20	0.81
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.02	mg/L	103	(50-150)		
MS_201501070653	Sodium Total ICAP	ND	50	49.2	mg/L	98	(70-130)		
MS2_201501070706	Sodium Total ICAP	86	50	130	mg/L	88	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501070653	Sodium Total ICAP	ND	50	49.8	mg/L	99	(70-130)	20	1.2
MSD2_201501070706	Sodium Total ICAP	86	50	130	mg/L	88	(70-130)	20	0.0
QC Ref# 813673 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 01/11/2015			
LCS1	Chloride		25	23.6	mg/L	95	(90-110)		
LCS2	Chloride		25	23.8	mg/L	95	(90-110)	20	1.3
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.397	mg/L	79	(50-150)		
MS_201501070003	Chloride	ND	13	12.5	mg/L	97	(80-120)		
MSD_201501070003	Chloride	ND	13	12.6	mg/L	97	(80-120)	20	0.80
LCS1	Sulfate		50	49.7	mg/L	100	(90-110)		
LCS2	Sulfate		50	50.1	mg/L	100	(90-110)	20	0.80
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.941	mg/L	94	(50-150)		
MRLLW	Sulfate		0.25	0.248	mg/L	99	(50-150)		
MS_201501070003	Sulfate	ND	25	26.0	mg/L	103	(80-120)		
MSD_201501070003	Sulfate	ND	25	26.1	mg/L	103	(80-120)	20	0.38
QC Ref# 813793 - ICP Metals by EPA 200.7						Analysis Date: 01/12/2015			
LCS1	Calcium Total ICAP		50	51.4	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	50.6	mg/L	101	(85-115)	20	1.6
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.02	mg/L	102	(50-150)		
MS_201501070718	Calcium Total ICAP	42	50	94.9	mg/L	106	(70-130)		
MS2_201501070720	Calcium Total ICAP	45	50	93.8	mg/L	98	(70-130)		
MSD_201501070718	Calcium Total ICAP	42	50	96.2	mg/L	108	(70-130)	20	1.4
MSD2_201501070720	Calcium Total ICAP	45	50	96.3	mg/L	103	(70-130)	20	2.6
LCS1	Magnesium Total ICAP		20	20.7	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		20	20.3	mg/L	102	(85-115)	20	2.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.105	mg/L	105	(50-150)		
MS_201501070718	Magnesium Total ICAP	8.1	20	29.3	mg/L	106	(70-130)		
MS2_201501070720	Magnesium Total ICAP	9.3	20	30.2	mg/L	104	(70-130)		
MSD_201501070718	Magnesium Total ICAP	8.1	20	29.6	mg/L	107	(70-130)	20	1.0
MSD2_201501070720	Magnesium Total ICAP	9.3	20	30.4	mg/L	105	(70-130)	20	0.66
LCS1	Sodium Total ICAP		50	51.0	mg/L	102	(85-115)		
LCS2	Sodium Total ICAP		50	49.8	mg/L	100	(85-115)	20	2.6
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501070718	Sodium Total ICAP	77	50	129	mg/L	103	(70-130)		
MS2_201501070720	Sodium Total ICAP	67	50	116	mg/L	99	(70-130)		
MSD_201501070718	Sodium Total ICAP	77	50	131	mg/L	108	(70-130)	20	1.5
MSD2_201501070720	Sodium Total ICAP	67	50	118	mg/L	102	(70-130)	20	1.7

QC Ref# 813884 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/12/2015

LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			95.6	%	96	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			95.2	%	95	(70-130)		
LCS1	4-Bromofluorobenzene (S)			92.0	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			93.8	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	Bromodichloromethane		5.0	5.49	ug/L	110	(70-130)		
LCS2	Bromodichloromethane		5.0	4.85	ug/L	97	(70-130)	20	12
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromoform		5.0	5.09	ug/L	102	(70-130)		
LCS2	Bromoform		5.0	4.71	ug/L	94	(70-130)	20	7.8
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.620	ug/L	124	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.12	ug/L	102	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.46	ug/L	89	(70-130)	20	14
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.380	ug/L	76	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.84	ug/L	97	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.64	ug/L	93	(70-130)	20	4.2
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			93.8	%	94	(70-130)		
MBLK	Toluene-d8 (S)			97.4	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			97.4	%	97	(70-130)		

QC Ref# 813889 - Volatile Organics by EPA 624 by EPA 624

Analysis Date: 01/12/2015

LCS1	1,1,1-Trichloroethane		20	22.5	ug/L	113	(79-121)		
LCS2	1,1,1-Trichloroethane		20	21.7	ug/L	109	(79-121)	20	3.6
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,1-Trichloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201501070231	1,1,1-Trichloroethane	ND	10	10.5	ug/L	105	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	24.3	ug/L	122	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	24.2	ug/L	121	(77-126)	20	0.41
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	1,1,2,2-Tetrachloroethane	ND	10	10.8	ug/L	108	(79-130)		
LCS1	1,1,2-Trichloroethane		20	23.0	ug/L	115	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.2	ug/L	106	(79-116)	20	8.1
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	1,1,2-Trichloroethane	ND	10	10.6	ug/L	106	(76-129)		
LCS1	1,1-Dichloroethane		20	22.6	ug/L	113	(77-129)		
LCS2	1,1-Dichloroethane		20	21.9	ug/L	109	(77-129)	20	3.1
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501070231	1,1-Dichloroethane	ND	10	11.0	ug/L	110	(70-146)		
LCS1	1,1-Dichloroethylene		20	23.5	ug/L	118	(77-139)		
LCS2	1,1-Dichloroethylene		20	23.6	ug/L	118	(77-139)	20	0.43
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.430	ug/L	86	(50-150)		
MS_201501070231	1,1-Dichloroethylene	ND	10	11.7	ug/L	117	(75-134)		
LCS1	1,2-Dichloroethane		20	22.6	ug/L	113	(81-122)		
LCS2	1,2-Dichloroethane		20	21.8	ug/L	109	(81-122)	20	3.6
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.390	ug/L	78	(50-150)		
MS_201501070231	1,2-Dichloroethane	ND	10	10.7	ug/L	107	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			95.2	%	95	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MS_201501070231	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
LCS1	1,2-Dichloropropane		20	23.5	ug/L	118	(77-118)		
LCS2	1,2-Dichloropropane		20	21.1	ug/L	106	(77-118)	20	11
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.470	ug/L	94	(50-150)		
MS_201501070231	1,2-Dichloropropane	ND	10	10.6	ug/L	106	(73-132)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	2-Butanone (MEK)		200	209	ug/L	105	(65-122)		
LCS2	2-Butanone (MEK)		200	204	ug/L	102	(65-122)	20	2.4
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.37	ug/L	107	(50-150)		
MS_201501070231	2-Butanone (MEK)	ND	100	104	ug/L	104	(59-129)		
LCS1	2-Hexanone		200	230	ug/L	115	(72-128)		
LCS2	2-Hexanone		200	220	ug/L	110	(72-128)	20	4.4
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.66	ug/L	93	(50-150)		
MS_201501070231	2-Hexanone	ND	100	108	ug/L	108	(71-134)		
LCS1	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
MBLK	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_LW	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
MS_201501070231	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	235	ug/L	117	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	223	ug/L	111	(76-130)	20	5.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.61	ug/L	92	(50-150)		
MS_201501070231	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	114	(75-136)		
LCS1	Acetone		200	231	ug/L	115	(47-117)		
LCS2	Acetone		200	224	ug/L	112	(47-117)	20	3.1
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	3.76	ug/L	75	(50-150)		
MS_201501070231	Acetone	ND	100	110	ug/L	110	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	23.3	ug/L	117	(60-156)		
LCS2	Benzene		20	22.2	ug/L	111	(60-156)	20	4.8
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	Benzene	ND	10	10.8	ug/L	107	(76-133)		
LCS1	Bromodichloromethane		20	24.5	ug/L	123	(77-113)		
LCS2	Bromodichloromethane		20	23.1	ug/L	116	(77-113)	20	5.9
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.440	ug/L	88	(50-150)		
MS_201501070231	Bromodichloromethane	ND	10	11.9	ug/L	119	(77-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromoform		20	21.0	ug/L	105	(54-134)		
LCS2	Bromoform		20	20.8	ug/L	104	(54-134)	20	0.48
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.620	ug/L	124	(50-150)		
MS_201501070231	Bromoform	ND	10	12.1	ug/L	121	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	22.6	ug/L	113	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	20.4	ug/L	102	(67-144)	20	10
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.620	ug/L	124	(50-150)		
MS_201501070231	Bromomethane (Methyl Bromide)	ND	10	3.39	ug/L	33	(55-147)		
LCS1	Carbon disulfide		20	21.6	ug/L	108	(63-131)		
LCS2	Carbon disulfide		20	21.3	ug/L	107	(63-131)	20	1.4
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.460	ug/L	92	(50-150)		
MS_201501070231	Carbon disulfide	ND	10	17.6	ug/L	174	(65-155)		
LCS1	Carbon Tetrachloride		20	21.6	ug/L	108	(73-127)		
LCS2	Carbon Tetrachloride		20	21.3	ug/L	107	(73-127)	20	1.4
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201501070231	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(71-151)		
LCS1	Chlorobenzene		20	23.0	ug/L	115	(57-166)		
LCS2	Chlorobenzene		20	21.4	ug/L	107	(57-166)	20	7.2
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201501070231	Chlorobenzene	ND	10	10.2	ug/L	102	(77-132)		
LCS1	Chlorodibromomethane		20	22.9	ug/L	115	(77-113)		
LCS2	Chlorodibromomethane		20	21.6	ug/L	108	(77-113)	20	5.8
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.380	ug/L	76	(50-150)		
MS_201501070231	Chlorodibromomethane	ND	10	11.9	ug/L	119	(68-136)		
LCS1	Chloroethane		20	24.4	ug/L	122	(70-133)		
LCS2	Chloroethane		20	22.2	ug/L	111	(70-133)	20	9.4
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501070231	Chloroethane	ND	10	11.9	ug/L	119	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	22.2	ug/L	111	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	21.3	ug/L	106	(78-117)	20	4.1
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.490	ug/L	98	(50-150)		
MS_201501070231	Chloroform (Trichloromethane)	ND	10	10.6	ug/L	106	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	25.3	ug/L	127	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	21.8	ug/L	109	(78-134)	20	15
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.480	ug/L	96	(50-150)		
MS_201501070231	Chloromethane(Methyl Chloride)	ND	10	10.5	ug/L	105	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	24.0	ug/L	120	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	22.8	ug/L	114	(80-114)	20	5.1
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.490	ug/L	98	(50-150)		
MS_201501070231	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	23.6	ug/L	118	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	21.9	ug/L	109	(68-123)	20	7.5
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201501070231	cis-1,3-Dichloropropene	ND	10	4.25	ug/L	43	(65-120)		
LCS1	Dichlorodifluoromethane		20	31.3	ug/L	157	(46-165)		
LCS2	Dichlorodifluoromethane		20	26.8	ug/L	134	(46-165)	20	16
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501070231	Dichlorodifluoromethane	ND	10	11.8	ug/L	118	(30-169)		
LCS1	Dichloromethane		20	21.6	ug/L	108	(77-121)		
LCS2	Dichloromethane		20	21.8	ug/L	109	(77-121)	20	0.92
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201501070231	Dichloromethane	ND	10	10.5	ug/L	105	(75-132)		
LCS1	Ethyl benzene		20	23.6	ug/L	118	(79-122)		
LCS2	Ethyl benzene		20	22.6	ug/L	113	(79-122)	20	3.9
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.430	ug/L	86	(50-150)		
MS_201501070231	Ethyl benzene	ND	10	10.8	ug/L	108	(68-146)		
LCS1	m,p-Xylenes		40	46.5	ug/L	116	(82-123)		
LCS2	m,p-Xylenes		40	43.5	ug/L	109	(82-123)	20	6.7
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.860	ug/L	86	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	m,p-Xylenes	ND	20	21.0	ug/L	105	(79-142)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	m-Dichlorobenzene (1,3-DCB)		20	24.0	ug/L	120	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	23.0	ug/L	115	(76-124)	20	4.3
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201501070231	m-Dichlorobenzene (1,3-DCB)	ND	10	10.4	ug/L	104	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	22.3	ug/L	112	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	22.0	ug/L	110	(70-130)	20	1.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.490	ug/L	98	(50-150)		
MS_201501070231	Methyl Tert-butyl ether (MTBE)	ND	10	10.9	ug/L	109	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	23.0	ug/L	115	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	21.6	ug/L	108	(79-118)	20	6.3
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201501070231	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(80-125)		
LCS1	o-Xylene		20	23.4	ug/L	117	(79-120)		
LCS2	o-Xylene		20	22.6	ug/L	113	(79-120)	20	3.5
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.420	ug/L	84	(50-150)		
MS_201501070231	o-Xylene	ND	10	10.6	ug/L	106	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	23.8	ug/L	119	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	23.3	ug/L	116	(74-130)	20	2.1
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.470	ug/L	94	(50-150)		
MS_201501070231	p-Dichlorobenzene (1,4-DCB)	ND	10	10.6	ug/L	106	(71-145)		
LCS1	Styrene		20	23.5	ug/L	118	(77-125)		
LCS2	Styrene		20	22.3	ug/L	112	(77-125)	20	5.2
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.370	ug/L	74	(50-150)		
MS_201501070231	Styrene	ND	10	11.0	ug/L	110	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	23.5	ug/L	117	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	21.8	ug/L	109	(79-122)	20	7.5
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.510	ug/L	102	(50-150)		
MS_201501070231	Tetrachloroethylene (PCE)	ND	10	10.3	ug/L	103	(72-146)		
LCS1	Tetrahydrofuran		200	222	ug/L	111	(67-130)		
LCS2	Tetrahydrofuran		200	216	ug/L	108	(67-130)	20	2.7
MBLK	Tetrahydrofuran			<5.0	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Tetrahydrofuran		5.0	4.71	ug/L	94	(50-150)		
MS_201501070231	Tetrahydrofuran	ND	100	105	ug/L	105	(68-134)		
LCS1	Toluene		20	23.0	ug/L	115	(80-118)		
LCS2	Toluene		20	21.6	ug/L	108	(80-118)	20	5.8
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	Toluene	ND	10	10.9	ug/L	108	(66-143)		
LCS1	Toluene-d8 (S)			104	%	104	(70-130)		
LCS2	Toluene-d8 (S)			97.8	%	98	(70-130)		
MBLK	Toluene-d8 (S)			97.4	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			97.4	%	97	(70-130)		
MRLLW	Toluene-d8 (S)			99.2	%	99	(70-130)		
MS_201501070231	Toluene-d8 (S)			98.8	%	99	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	22.2	ug/L	111	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	22.1	ug/L	111	(82-122)	20	0.45
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201501070231	trans-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	21.6	ug/L	108	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	21.3	ug/L	107	(64-126)	20	1.4
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
MS_201501070231	trans-1,3-Dichloropropene	ND	10	6.32	ug/L	63	(61-127)		
LCS1	Trichloroethylene (TCE)		20	23.3	ug/L	117	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.8	ug/L	109	(78-119)	20	6.7
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201501070231	Trichloroethylene (TCE)	ND	10	11.4	ug/L	114	(71-139)		
LCS1	Trichlorofluoromethane		20	24.5	ug/L	123	(70-145)		
LCS2	Trichlorofluoromethane		20	22.2	ug/L	111	(70-145)	20	9.8
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.420	ug/L	84	(50-150)		
MS_201501070231	Trichlorofluoromethane	ND	10	12.2	ug/L	122	(63-161)		
LCS1	Vinyl Acetate		100	112	ug/L	112	(72-136)		
LCS2	Vinyl Acetate		100	108	ug/L	108	(72-136)	20	3.6
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.40	ug/L	96	(50-150)		
MS_201501070231	Vinyl Acetate	ND	50	48.3	ug/L	97	(55-146)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Vinyl chloride (VC)		20	26.3	ug/L	131	(66-140)		
LCS2	Vinyl chloride (VC)		20	22.8	ug/L	114	(66-140)	20	14
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.470	ug/L	94	(50-150)		
MRLLLW	Vinyl chloride (VC)		0.3	0.230	ug/L	77	(50-150)		
MS_201501070231	Vinyl chloride (VC)	ND	10	12.2	ug/L	122	(56-159)		

QC Ref# 813928 - ICPMS Metals by EPA 200.8

Analysis Date: 01/13/2015

LCS1	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	0.0
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501080328	Antimony Total ICAP/MS	ND	50	50.0	ug/L	100	(70-130)		
MS2_201501080676	Antimony Total ICAP/MS	ND	50	50.1	ug/L	100	(70-130)		
MSD_201501080328	Antimony Total ICAP/MS	ND	50	50.9	ug/L	102	(70-130)	20	1.8
MSD2_201501080676	Antimony Total ICAP/MS	ND	50	50.2	ug/L	100	(70-130)	20	0.20
LCS1	Arsenic Total ICAP/MS		20	22.3	ug/L	112	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.9	ug/L	110	(85-115)	20	1.8
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.17	ug/L	117	(50-150)		
MS_201501080328	Arsenic Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201501080676	Arsenic Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501080328	Arsenic Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	2.0
MSD2_201501080676	Arsenic Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	3.4
LCS1	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Barium Total ICAP/MS		100	99.1	ug/L	99	(85-115)	20	0.90
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.20	ug/L	110	(50-150)		
MS_201501080328	Barium Total ICAP/MS	17	100	119	ug/L	102	(70-130)		
MS2_201501080676	Barium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501080328	Barium Total ICAP/MS	17	100	118	ug/L	101	(70-130)	20	0.84
MSD2_201501080676	Barium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	0.99
LCS1	Beryllium Total ICAP/MS		5.0	5.38	ug/L	108	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.17	ug/L	103	(85-115)	20	4.0
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201501080328	Beryllium Total ICAP/MS	ND	5.0	5.14	ug/L	102	(70-130)		
MS2_201501080676	Beryllium Total ICAP/MS	ND	5.0	5.11	ug/L	102	(70-130)		
MSD_201501080328	Beryllium Total ICAP/MS	ND	5.0	5.45	ug/L	109	(70-130)	20	5.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501080676	Beryllium Total ICAP/MS	ND	5.0	5.12	ug/L	102	(70-130)	20	0.20
LCS1	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.7	ug/L	98	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.550	ug/L	110	(50-150)		
MS_201501080328	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501080676	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_201501080328	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	0.99
MSD2_201501080676	Cadmium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	1.5
LCS1	Chromium Total ICAP/MS		100	96.3	ug/L	96	(85-115)		
LCS2	Chromium Total ICAP/MS		100	95.4	ug/L	96	(85-115)	20	0.83
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501080328	Chromium Total ICAP/MS	1.9	100	96.1	ug/L	94	(70-130)		
MS2_201501080676	Chromium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MSD_201501080328	Chromium Total ICAP/MS	1.9	100	96.6	ug/L	95	(70-130)	20	0.52
MSD2_201501080676	Chromium Total ICAP/MS	ND	100	97.0	ug/L	97	(70-130)	20	2.0
LCS1	Cobalt Total ICAP/MS		100	94.4	ug/L	94	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.74
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201501080328	Cobalt Total ICAP/MS	ND	100	90.6	ug/L	91	(70-130)		
MS2_201501080676	Cobalt Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)		
MSD_201501080328	Cobalt Total ICAP/MS	ND	100	91.9	ug/L	92	(70-130)	20	1.3
MSD2_201501080676	Cobalt Total ICAP/MS	ND	100	95.7	ug/L	96	(70-130)	20	1.7
LCS1	Copper Total ICAP/MS		100	99.1	ug/L	99	(85-115)		
LCS2	Copper Total ICAP/MS		100	97.5	ug/L	98	(85-115)	20	1.6
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.61	ug/L	81	(50-150)		
MS_201501080328	Copper Total ICAP/MS	ND	100	95.2	ug/L	94	(70-130)		
MS2_201501080676	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501080328	Copper Total ICAP/MS	ND	100	96.6	ug/L	95	(70-130)	20	1.4
MSD2_201501080676	Copper Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	0.99
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	18.7	ug/L	93	(85-115)	20	2.6
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.500	ug/L	100	(50-150)		
MS_201501080328	Lead Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501080676	Lead Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)		
MSD_201501080328	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	0.51
MSD2_201501080676	Lead Total ICAP/MS	ND	20	19.9	ug/L	100	(70-130)	20	3.0
LCS1	Molybdenum Total ICAP/MS		100	97.0	ug/L	97	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	96.9	ug/L	97	(85-115)	20	0.10
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.89	ug/L	95	(50-150)		
MS_201501080328	Molybdenum Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MS2_201501080676	Molybdenum Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MSD_201501080328	Molybdenum Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	1.9
MSD2_201501080676	Molybdenum Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.0
LCS1	Nickel Total ICAP/MS		50	48.1	ug/L	96	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.9	ug/L	98	(85-115)	20	1.6
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.90	ug/L	98	(50-150)		
MS_201501080328	Nickel Total ICAP/MS	ND	50	47.2	ug/L	94	(70-130)		
MS2_201501080676	Nickel Total ICAP/MS	ND	50	51.2	ug/L	102	(70-130)		
MSD_201501080328	Nickel Total ICAP/MS	ND	50	48.0	ug/L	95	(70-130)	20	1.7
MSD2_201501080676	Nickel Total ICAP/MS	ND	50	51.2	ug/L	102	(70-130)	20	0.0
LCS1	Selenium Total ICAP/MS		20	23.7	ug/L	118	(85-115)		
LCS2	Selenium Total ICAP/MS		20	23.7	ug/L	119	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.17	ug/L	103	(50-150)		
MS_201501080328	Selenium Total ICAP/MS	ND	20	20.1	ug/L	91	(70-130)		
MS2_201501080676	Selenium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MSD_201501080328	Selenium Total ICAP/MS	ND	20	21.7	ug/L	99	(70-130)	20	7.7
MSD2_201501080676	Selenium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	4.4
LCS1	Thallium Total ICAP/MS		20	18.2	ug/L	91	(85-115)		
LCS2	Thallium Total ICAP/MS		20	17.9	ug/L	90	(85-115)	20	1.7
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.921	ug/L	92	(50-150)		
MS_201501080328	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MS2_201501080676	Thallium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MSD_201501080328	Thallium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	2.1
MSD2_201501080676	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	2.1
LCS1	Vanadium Total ICAP/MS		100	95.9	ug/L	96	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	95.0	ug/L	95	(85-115)	20	0.94
MBLK	Vanadium Total ICAP/MS			<3	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.94	ug/L	98	(50-150)		
MS_201501080328	Vanadium Total ICAP/MS	9.8	100	106	ug/L	96	(70-130)		
MS2_201501080676	Vanadium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MSD_201501080328	Vanadium Total ICAP/MS	9.8	100	108	ug/L	98	(70-130)	20	1.9
MSD2_201501080676	Vanadium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	1.8
LCS1	Zinc Total ICAP/MS		100	99.6	ug/L	100	(85-115)		
LCS2	Zinc Total ICAP/MS		100	98.4	ug/L	98	(85-115)	20	1.2
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.5	ug/L	103	(50-150)		
MS_201501080328	Zinc Total ICAP/MS	ND	100	97.9	ug/L	97	(70-130)		
MS2_201501080676	Zinc Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201501080328	Zinc Total ICAP/MS	ND	100	102	ug/L	100	(70-130)	20	4.1
MSD2_201501080676	Zinc Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	1.9

QC Ref# 813971 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Beryllium Total ICAP/MS		5.0	5.14	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.07	ug/L	101	(85-115)	20	1.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.983	ug/L	98	(50-150)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0

QC Ref# 813982 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Antimony Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.28	ug/L	128	(50-150)		
MS_201501070720	Antimony Total ICAP/MS	ND	50	48.1	ug/L	94	(70-130)		
MS2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)		
MSD_201501070720	Antimony Total ICAP/MS	ND	50	51.0	ug/L	100	(70-130)	20	5.8
MSD2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.884	ug/L	88	(50-150)		
MS_201501070720	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	99	(70-130)		
MS2_201501080159	Arsenic Total ICAP/MS	4.2	20	24.0	ug/L	99	(70-130)		
MSD_201501070720	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	104	(70-130)	20	5.2
MSD2_201501080159	Arsenic Total ICAP/MS	4.2	20	23.9	ug/L	98	(70-130)	20	0.42
LCS1	Barium Total ICAP/MS		100	94.5	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	92.8	ug/L	93	(85-115)	20	1.8
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.93	ug/L	96	(50-150)		
MS_201501070720	Barium Total ICAP/MS	30	100	121	ug/L	91	(70-130)		
MS2_201501080159	Barium Total ICAP/MS	170	100	263	ug/L	96	(70-130)		
MSD_201501070720	Barium Total ICAP/MS	30	100	126	ug/L	96	(70-130)	20	4.0
MSD2_201501080159	Barium Total ICAP/MS	170	100	264	ug/L	98	(70-130)	20	0.38
LCS1	Beryllium Total ICAP/MS		5.0	5.09	ug/L	102	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.24	ug/L	105	(85-115)	20	2.9
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	107	(50-150)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201501070720	Cadmium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)		
MS2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MSD_201501070720	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)	20	4.5
MSD2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.0
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501070720	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501070720	Chromium Total ICAP/MS	ND	100	107	ug/L	106	(70-130)	20	4.8
MSD2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	99.3	ug/L	99	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.70
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201501070720	Cobalt Total ICAP/MS	ND	100	98.9	ug/L	99	(70-130)		
MS2_201501080159	Cobalt Total ICAP/MS	ND	100	97.0	ug/L	97	(70-130)		
MSD_201501070720	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	2.1
MSD2_201501080159	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)	20	0.31
LCS1	Copper Total ICAP/MS		100	97.5	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	1.3
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.93	ug/L	97	(50-150)		
MS_201501070720	Copper Total ICAP/MS	34	100	126	ug/L	91	(70-130)		
MS2_201501080159	Copper Total ICAP/MS	2	100	90.6	ug/L	89	(70-130)		
MSD_201501070720	Copper Total ICAP/MS	34	100	128	ug/L	93	(70-130)	20	1.6
MSD2_201501080159	Copper Total ICAP/MS	2	100	90.7	ug/L	89	(70-130)	20	0.11
LCS1	Lead Total ICAP/MS		20	20.1	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.99
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.521	ug/L	104	(50-150)		
MS_201501070720	Lead Total ICAP/MS	1.8	20	19.6	ug/L	89	(70-130)		
MS2_201501080159	Lead Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Lead Total ICAP/MS	1.8	20	20.7	ug/L	95	(70-130)	20	5.5
MSD2_201501080159	Lead Total ICAP/MS	ND	20	22.0	ug/L	108	(70-130)	20	0.46
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201501070720	Molybdenum Total ICAP/MS	7.4	100	120	ug/L	113	(70-130)		
MS2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	112	(70-130)		
MSD_201501070720	Molybdenum Total ICAP/MS	7.4	100	124	ug/L	117	(70-130)	20	3.3
MSD2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	113	(70-130)	20	0.86
LCS1	Nickel Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.7	ug/L	101	(85-115)	20	0.59

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.96	ug/L	99	(50-150)		
MS_201501070720	Nickel Total ICAP/MS	ND	50	50.7	ug/L	95	(70-130)		
MS2_201501080159	Nickel Total ICAP/MS	ND	50	48.4	ug/L	94	(70-130)		
MSD_201501070720	Nickel Total ICAP/MS	ND	50	52.7	ug/L	99	(70-130)	20	3.9
MSD2_201501080159	Nickel Total ICAP/MS	ND	50	48.0	ug/L	94	(70-130)	20	0.83
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	4.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.05	ug/L	101	(50-150)		
MS_201501070720	Selenium Total ICAP/MS	ND	20	19.9	ug/L	96	(70-130)		
MS2_201501080159	Selenium Total ICAP/MS	ND	20	19.4	ug/L	93	(70-130)		
MSD_201501070720	Selenium Total ICAP/MS	ND	20	20.4	ug/L	98	(70-130)	20	2.5
MSD2_201501080159	Selenium Total ICAP/MS	ND	20	20.2	ug/L	98	(70-130)	20	4.0
LCS1	Silver Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	1.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.507	ug/L	101	(50-150)		
MS_201501070720	Silver Total ICAP/MS	ND	50	44.4	ug/L	88	(70-130)		
MS2_201501080159	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)		
MSD_201501070720	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)	20	4.0
MSD2_201501080159	Silver Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)	20	0.22
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.9	ug/L	99	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501070720	Thallium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MS2_201501080159	Thallium Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	5.4
MSD2_201501080159	Thallium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)	20	0.46
LCS1	Vanadium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.97	ug/L	99	(50-150)		
MS_201501070720	Vanadium Total ICAP/MS	ND	100	105	ug/L	103	(70-130)		
MS2_201501080159	Vanadium Total ICAP/MS	ND	100	103	ug/L	102	(70-130)		
MSD_201501070720	Vanadium Total ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501080159	Vanadium Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.98

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	105	(85-115)	20	0.96
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	23.8	ug/L	119	(50-150)		
MS_201501070720	Zinc Total ICAP/MS	130	100	230	ug/L	102	(70-130)		
MS2_201501080159	Zinc Total ICAP/MS	ND	100	105	ug/L	90	(70-130)		
MSD_201501070720	Zinc Total ICAP/MS	130	100	233	ug/L	105	(70-130)	20	1.3
MSD2_201501080159	Zinc Total ICAP/MS	ND	100	106	ug/L	91	(70-130)	20	0.95

QC Ref# 814030 - ICPMS Metals by EPA 200.8

Analysis Date: 01/13/2015

LCS1	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.6	ug/L	97	(85-115)	20	2.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.498	ug/L	100	(50-150)		
MS_201501060462	Silver Total ICAP/MS	ND	50	9.23	ug/L	<u>18</u>	(70-130)		
MS2_201501050313	Silver Total ICAP/MS	ND	50	42.7	ug/L	85	(70-130)		
MSD_201501060462	Silver Total ICAP/MS	ND	50	20.5	ug/L	<u>41</u>	(70-130)	20	<u>76</u>
MSD2_201501050313	Silver Total ICAP/MS	ND	50	40.5	ug/L	81	(70-130)	20	5.3

QC Ref# 814105 - ICPMS Metals by EPA 200.8

Analysis Date: 01/14/2015

LCS1	Antimony dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony dissolved ICAP/MS	ND	50	53.2	ug/L	106	(70-130)		
MS2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony dissolved ICAP/MS	ND	50	55.4	ug/L	110	(70-130)	20	3.9
MSD2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Antimony Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony Total ICAP/MS	ND	50	53.2	ug/L	107	(70-130)		
MS2_201501100030	Antimony Total ICAP/MS		50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony Total ICAP/MS	ND	50	55.4	ug/L	111	(70-130)	20	3.9
MSD2_201501100030	Antimony Total ICAP/MS		50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Arsenic dissolved ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.0	ug/L	107	(70-130)		
MS2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.8	ug/L	111	(70-130)	20	2.9
MSD2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic Total ICAP/MS	69	20	27.0	ug/L	107	(70-130)		
MS2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic Total ICAP/MS	69	20	27.8	ug/L	139	(70-130)	20	2.9
MSD2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0
LCS1	Barium dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium dissolved ICAP/MS	40	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium dissolved ICAP/MS	40	100	151	ug/L	111	(70-130)	20	3.4
MSD2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	109	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium Total ICAP/MS	860	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium Total ICAP/MS		100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium Total ICAP/MS	860	100	151	ug/L	151	(70-130)	20	3.4
MSD2_201501100030	Barium Total ICAP/MS		100	116	ug/L	109	(70-130)	20	0.0
LCS1	Beryllium dissolved ICAP/MS		5.0	5.13	ug/L	103	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Beryllium Total ICAP/MS		5.0	5.13	ug/L	103	(85-115)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Beryllium Total ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium Total ICAP/MS	2.0	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium Total ICAP/MS		5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium Total ICAP/MS	2.0	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium Total ICAP/MS		5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Cadmium dissolved ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		
MSD_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	2.8
MSD2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium Total ICAP/MS		20	21.6	ug/L	108	(70-130)		
MSD_201501090433	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	110	(70-130)	20	2.8
MSD2_201501100030	Cadmium Total ICAP/MS		20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium dissolved ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium dissolved ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	4.8
MSD2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium Total ICAP/MS	54	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium Total ICAP/MS	54	100	107	ug/L	107	(70-130)	20	4.8

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Cobalt dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.14	ug/L	107	(50-150)		
MS_201501090433	Cobalt dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt dissolved ICAP/MS	ND	100	112	ug/L	112	(70-130)	20	11
MSD2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.14	ug/L	107	(50-150)		
MS_201501090433	Cobalt Total ICAP/MS	33	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt Total ICAP/MS		100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt Total ICAP/MS	33	100	103	ug/L	103	(70-130)	20	3.0
MSD2_201501100030	Cobalt Total ICAP/MS		100	101	ug/L	100	(70-130)	20	0.0
LCS1	Lead dissolved ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead dissolved ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead dissolved ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead dissolved ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead Total ICAP/MS	42	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead Total ICAP/MS	0.69	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead Total ICAP/MS	42	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead Total ICAP/MS	0.69	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Molybdenum dissolved ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum dissolved ICAP/MS	30	100	133	ug/L	103	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum dissolved ICAP/MS	30	100	137	ug/L	108	(70-130)	20	3.0
MSD2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum Total ICAP/MS	13	100	133	ug/L	103	(70-130)		
MS2_201501100030	Molybdenum Total ICAP/MS		100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum Total ICAP/MS	13	100	137	ug/L	137	(70-130)	20	3.0
MSD2_201501100030	Molybdenum Total ICAP/MS		100	120	ug/L	106	(70-130)	20	0.0
LCS1	Nickel dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel dissolved ICAP/MS	ND	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel dissolved ICAP/MS	ND	50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel dissolved ICAP/MS	ND	50	49.0	ug/L	97	(70-130)	20	2.9
MSD2_201501100030	Nickel dissolved ICAP/MS	ND	50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel Total ICAP/MS	28	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel Total ICAP/MS		50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel Total ICAP/MS	28	50	49.0	ug/L	98	(70-130)	20	2.9
MSD2_201501100030	Nickel Total ICAP/MS		50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Selenium dissolved ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium dissolved ICAP/MS	ND	20	21.8	ug/L	102	(70-130)		
MS2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium dissolved ICAP/MS	ND	20	22.8	ug/L	107	(70-130)	20	4.5
MSD2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Selenium Total ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium Total ICAP/MS			<5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Selenium Total ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)		
MS2_201501100030	Selenium Total ICAP/MS		20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	4.5
MSD2_201501100030	Selenium Total ICAP/MS		20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Thallium dissolved ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium dissolved ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501100030	Thallium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium dissolved ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium dissolved ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	2.9
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium Total ICAP/MS	1.9	20	20.2	ug/L	101	(70-130)		
MS2_201501100030	Thallium Total ICAP/MS		20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium Total ICAP/MS	1.9	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium Total ICAP/MS		20	20.7	ug/L	102	(70-130)	20	2.9
LCS1	Vanadium Dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Dissolved ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
LCS1	Vanadium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Total ICAP/MS	270	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Total ICAP/MS		100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Total ICAP/MS	270	100	108	ug/L	108	(70-130)	20	2.8
MSD2_201501100030	Vanadium Total ICAP/MS		100	104	ug/L	104	(70-130)	20	1.9
LCS1	Zinc dissolved ICAP/MS		100	102	ug/L	102	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Zinc dissolved ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc dissolved ICAP/MS	ND	100	108	ug/L	104	(70-130)		
MS2_201501100030	Zinc dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Zinc dissolved ICAP/MS	ND	100	112	ug/L	108	(70-130)	20	3.6
MSD2_201501100030	Zinc dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95
LCS1	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc Total ICAP/MS	420	100	108	ug/L	108	(70-130)		
MS2_201501100030	Zinc Total ICAP/MS		100	106	ug/L	106	(70-130)		
MSD_201501090433	Zinc Total ICAP/MS	420	100	112	ug/L	112	(70-130)	20	3.6
MSD2_201501100030	Zinc Total ICAP/MS		100	105	ug/L	105	(70-130)	20	0.95

QC Ref# 814145 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/14/2015

LCS1	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	Bromodichloromethane		5.0	4.60	ug/L	92	(70-130)		
LCS2	Bromodichloromethane		5.0	4.87	ug/L	97	(70-130)	20	5.7
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	5.75	ug/L	115	(70-130)		
LCS2	Bromoform		5.0	5.51	ug/L	110	(70-130)	20	4.3
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	5.26	ug/L	105	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.67	ug/L	93	(70-130)	20	12
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.93	ug/L	99	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.73	ug/L	95	(70-130)	20	4.1
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			93.6	%	94	(70-130)		
LCS2	Toluene-d8 (S)			98.4	%	98	(70-130)		
MBLK	Toluene-d8 (S)			91.6	%	92	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 814150 - Volatile Organics by EPA 624 by EPA 624						Analysis Date: 01/13/2015			
LCS1	1,1,1-Trichloroethane		20	20.8	ug/L	104	(79-121)		
LCS2	1,1,1-Trichloroethane		20	20.8	ug/L	104	(79-121)	20	0.0
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	1,1,1-Trichloroethane	ND	10	10.6	ug/L	107	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	21.5	ug/L	108	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	21.7	ug/L	109	(77-126)	20	0.93
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(79-130)		
LCS1	1,1,2-Trichloroethane		20	20.5	ug/L	102	(79-116)		
LCS2	1,1,2-Trichloroethane		20	20.5	ug/L	102	(79-116)	20	0.0
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	1,1,2-Trichloroethane	ND	10	9.59	ug/L	96	(76-129)		
LCS1	1,1-Dichloroethane		20	20.3	ug/L	102	(77-129)		
LCS2	1,1-Dichloroethane		20	20.1	ug/L	101	(77-129)	20	0.99
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,1-Dichloroethane	ND	10	9.61	ug/L	96	(70-146)		
LCS1	1,1-Dichloroethylene		20	20.2	ug/L	101	(77-139)		
LCS2	1,1-Dichloroethylene		20	19.0	ug/L	95	(77-139)	20	6.1
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	1,1-Dichloroethylene	ND	10	9.77	ug/L	98	(75-134)		
LCS1	1,2-Dichloroethane		20	21.9	ug/L	110	(81-122)		
LCS2	1,2-Dichloroethane		20	21.0	ug/L	105	(81-122)	20	4.2
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201412310066	1,2-Dichloroethane	ND	10	9.92	ug/L	99	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			97.0	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201412310066	1,2-Dichloroethane-d4 (S)			99.6	%	100	(70-130)		
LCS1	1,2-Dichloropropane		20	19.8	ug/L	99	(77-118)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2-Dichloropropane		20	19.4	ug/L	97	(77-118)	20	2.0
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,2-Dichloropropane	ND	10	9.40	ug/L	94	(73-132)		
LCS1	2-Butanone (MEK)		200	213	ug/L	106	(65-122)		
LCS2	2-Butanone (MEK)		200	204	ug/L	102	(65-122)	20	4.3
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.80	ug/L	116	(50-150)		
MS_201412310066	2-Butanone (MEK)	ND	100	104	ug/L	104	(59-129)		
LCS1	2-Hexanone		200	220	ug/L	110	(72-128)		
LCS2	2-Hexanone		200	213	ug/L	107	(72-128)	20	3.7
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.99	ug/L	100	(50-150)		
MS_201412310066	2-Hexanone	ND	100	103	ug/L	103	(71-134)		
LCS1	4-Bromofluorobenzene (S)			93.4	%	93	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MS_201412310066	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	220	ug/L	110	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	210	ug/L	105	(76-130)	20	4.7
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.86	ug/L	97	(50-150)		
MS_201412310066	4-Methyl-2-Pentanone (MIBK)	ND	100	104	ug/L	104	(75-136)		
LCS1	Acetone		200	211	ug/L	105	(47-117)		
LCS2	Acetone		200	207	ug/L	103	(47-117)	20	1.9
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.89	ug/L	118	(50-150)		
MS_201412310066	Acetone	ND	100	103	ug/L	103	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	20.4	ug/L	102	(60-156)		
LCS2	Benzene		20	20.3	ug/L	102	(60-156)	20	0.49
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Benzene	ND	10	9.72	ug/L	97	(76-133)		
LCS1	Bromodichloromethane		20	21.7	ug/L	109	(77-113)		
LCS2	Bromodichloromethane		20	21.7	ug/L	109	(77-113)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	Bromodichloromethane	ND	10	9.74	ug/L	97	(77-130)		
LCS1	Bromoform		20	20.8	ug/L	104	(54-134)		
LCS2	Bromoform		20	22.5	ug/L	113	(54-134)	20	7.8
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	Bromoform	ND	10	11.9	ug/L	119	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	19.4	ug/L	97	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	20.3	ug/L	101	(67-144)	20	4.5
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.630	ug/L	126	(50-150)		
MS_201412310066	Bromomethane (Methyl Bromide)	ND	10	10.1	ug/L	101	(55-147)		
LCS1	Carbon disulfide		20	17.4	ug/L	87	(63-131)		
LCS2	Carbon disulfide		20	17.2	ug/L	86	(63-131)	20	1.2
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.560	ug/L	112	(50-150)		
MS_201412310066	Carbon disulfide	ND	10	9.62	ug/L	96	(65-155)		
LCS1	Carbon Tetrachloride		20	21.8	ug/L	109	(73-127)		
LCS2	Carbon Tetrachloride		20	22.0	ug/L	110	(73-127)	20	0.91
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	Carbon Tetrachloride	ND	10	10.8	ug/L	109	(71-151)		
LCS1	Chlorobenzene		20	19.3	ug/L	97	(57-166)		
LCS2	Chlorobenzene		20	19.7	ug/L	98	(57-166)	20	2.0
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Chlorobenzene	ND	10	9.17	ug/L	92	(77-132)		
LCS1	Chlorodibromomethane		20	23.1	ug/L	116	(77-113)		
LCS2	Chlorodibromomethane		20	23.3	ug/L	116	(77-113)	20	0.86
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	Chlorodibromomethane	ND	10	10.2	ug/L	102	(68-136)		
LCS1	Chloroethane		20	19.9	ug/L	99	(70-133)		
LCS2	Chloroethane		20	21.3	ug/L	107	(70-133)	20	6.8
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.640	ug/L	128	(50-150)		
MS_201412310066	Chloroethane	ND	10	10.3	ug/L	103	(45-180)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chloroform (Trichloromethane)		20	20.4	ug/L	102	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	20.2	ug/L	101	(78-117)	20	0.99
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Chloroform (Trichloromethane)	ND	10	10.0	ug/L	100	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	19.6	ug/L	98	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	21.5	ug/L	107	(78-134)	20	9.3
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	Chloromethane(Methyl Chloride)	ND	10	9.98	ug/L	99	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	20.9	ug/L	105	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	20.2	ug/L	101	(80-114)	20	3.4
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	cis-1,2-Dichloroethylene	ND	10	10.2	ug/L	102	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	22.2	ug/L	111	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	22.4	ug/L	112	(68-123)	20	0.90
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.370	ug/L	74	(50-150)		
MS_201412310066	cis-1,3-Dichloropropene	ND	10	10.2	ug/L	102	(65-120)		
LCS1	Dichlorodifluoromethane		20	26.3	ug/L	132	(46-165)		
LCS2	Dichlorodifluoromethane		20	28.8	ug/L	144	(46-165)	20	9.1
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.410	ug/L	82	(50-150)		
MS_201412310066	Dichlorodifluoromethane	ND	10	11.8	ug/L	118	(30-169)		
LCS1	Dichloromethane		20	20.4	ug/L	102	(77-121)		
LCS2	Dichloromethane		20	19.7	ug/L	99	(77-121)	20	3.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201412310066	Dichloromethane	ND	10	9.50	ug/L	95	(75-132)		
LCS1	Ethyl benzene		20	20.5	ug/L	102	(79-122)		
LCS2	Ethyl benzene		20	20.4	ug/L	102	(79-122)	20	0.49
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	Ethyl benzene	ND	10	9.62	ug/L	96	(68-146)		
LCS1	m,p-Xylenes		40	42.1	ug/L	105	(82-123)		
LCS2	m,p-Xylenes		40	41.3	ug/L	103	(82-123)	20	1.9
MBLK	m,p-Xylenes			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	m,p-Xylenes		1.0	0.840	ug/L	84	(50-150)		
MS_201412310066	m,p-Xylenes	ND	20	19.4	ug/L	97	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	18.9	ug/L	94	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.5	ug/L	102	(76-124)	20	8.1
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	m-Dichlorobenzene (1,3-DCB)	ND	10	9.81	ug/L	98	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	19.6	ug/L	98	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	19.3	ug/L	96	(70-130)	20	1.5
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	Methyl Tert-butyl ether (MTBE)	ND	10	9.62	ug/L	96	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	19.2	ug/L	96	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.5	ug/L	102	(79-118)	20	6.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	o-Dichlorobenzene (1,2-DCB)	ND	10	9.62	ug/L	96	(80-125)		
LCS1	o-Xylene		20	22.4	ug/L	112	(79-120)		
LCS2	o-Xylene		20	21.3	ug/L	107	(79-120)	20	5.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.430	ug/L	86	(50-150)		
MS_201412310066	o-Xylene	ND	10	9.97	ug/L	100	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	18.6	ug/L	93	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	10
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	p-Dichlorobenzene (1,4-DCB)	ND	10	9.88	ug/L	99	(71-145)		
LCS1	Styrene		20	21.3	ug/L	107	(77-125)		
LCS2	Styrene		20	20.6	ug/L	103	(77-125)	20	3.3
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.630	ug/L	126	(50-150)		
MS_201412310066	Styrene	ND	10	6.23	ug/L	<u>62</u>	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	20.2	ug/L	101	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	21.1	ug/L	105	(79-122)	20	4.4
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	Tetrachloroethylene (PCE)	ND	10	9.93	ug/L	99	(72-146)		
LCS1	Tetrahydrofuran		200	213	ug/L	107	(67-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Tetrahydrofuran		200	201	ug/L	101	(67-130)	20	5.8
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	5.21	ug/L	104	(50-150)		
MS_201412310066	Tetrahydrofuran	ND	100	101	ug/L	101	(68-134)		
LCS1	Toluene		20	20.6	ug/L	103	(80-118)		
LCS2	Toluene		20	20.6	ug/L	103	(80-118)	20	0.0
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	Toluene	ND	10	9.66	ug/L	97	(66-143)		
LCS1	Toluene-d8 (S)			96.8	%	97	(70-130)		
LCS2	Toluene-d8 (S)			98.6	%	99	(70-130)		
MBLK	Toluene-d8 (S)			91.6	%	92	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.0	%	99	(70-130)		
MS_201412310066	Toluene-d8 (S)			98.0	%	98	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	20.7	ug/L	104	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	20.8	ug/L	104	(82-122)	20	0.48
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
MS_201412310066	trans-1,2-Dichloroethylene	ND	10	10.3	ug/L	103	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	22.8	ug/L	114	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	23.1	ug/L	115	(64-126)	20	1.3
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	trans-1,3-Dichloropropene	ND	10	9.14	ug/L	91	(61-127)		
LCS1	Trichloroethylene (TCE)		20	21.0	ug/L	105	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.7	ug/L	109	(78-119)	20	3.3
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.440	ug/L	88	(50-150)		
MS_201412310066	Trichloroethylene (TCE)	ND	10	10.0	ug/L	101	(71-139)		
LCS1	Trichlorofluoromethane		20	20.8	ug/L	104	(70-145)		
LCS2	Trichlorofluoromethane		20	21.8	ug/L	109	(70-145)	20	4.7
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Trichlorofluoromethane	ND	10	11.2	ug/L	112	(63-161)		
LCS1	Vinyl Acetate		100	99.8	ug/L	100	(72-136)		
LCS2	Vinyl Acetate		100	85.5	ug/L	86	(72-136)	20	15
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.38	ug/L	95	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412310066	Vinyl Acetate	ND	50	39.0	ug/L	78	(55-146)		
LCS1	Vinyl chloride (VC)		20	21.8	ug/L	109	(66-140)		
LCS2	Vinyl chloride (VC)		20	23.6	ug/L	118	(66-140)	20	7.9
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.500	ug/L	100	(50-150)		
MS_201412310066	Vinyl chloride (VC)	ND	10	11.1	ug/L	111	(56-159)		

QC Ref# 814272 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 01/14/2015

LCS1	Ammonia Nitrogen		0.5	0.526	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.520	mg/L	104	(90-110)	20	1.1
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0479	mg/L	96	(53-118)		
MS_201412310019	Ammonia Nitrogen	ND	0.5	0.411	mg/L	<u>73</u>	(90-110)		
MS_201412310124	Ammonia Nitrogen	0.57	0.5	1.04	mg/L	94	(90-110)		
MSD_201412310019	Ammonia Nitrogen	ND	0.5	0.432	mg/L	<u>78</u>	(90-110)	20	5.0
MSD_201412310124	Ammonia Nitrogen	0.57	0.5	0.986	mg/L	<u>83</u>	(90-110)	20	5.3

QC Ref# 814273 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 01/14/2015

LCS1	Ammonia Nitrogen		0.5	0.522	mg/L	104	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.524	mg/L	105	(90-110)	20	0.38
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0484	mg/L	97	(53-118)		
MS_201501070352	Ammonia Nitrogen	1.0	0.5	1.40	mg/L	<u>76</u>	(90-110)		
MS_201501080220	Ammonia Nitrogen	0.091	0.5	0.608	mg/L	103	(90-110)		
MSD_201501070352	Ammonia Nitrogen	1.0	0.5	1.48	mg/L	92	(90-110)	20	5.6
MSD_201501080220	Ammonia Nitrogen	0.091	0.5	0.611	mg/L	104	(90-110)	20	0.49

QC Ref# 814636 - ICPMS Metals by EPA 200.8

Analysis Date: 01/15/2015

LCS1	Copper dissolved ICAP/MS		100	95.7	ug/L	96	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	94.6	ug/L	95	(85-115)	20	1.2
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.02	ug/L	101	(50-150)		
MS_201501090433	Copper dissolved ICAP/MS	ND	100	97.0	ug/L	96	(70-130)		
MS2_201501160024	Copper dissolved ICAP/MS	ND	100	95.4	ug/L	95	(70-130)		
MSD_201501090433	Copper dissolved ICAP/MS	ND	100	101	ug/L	100	(70-130)	20	4.0
MSD2_201501160024	Copper dissolved ICAP/MS	ND	100	94.9	ug/L	95	(70-130)	20	0.53

QC Ref# 814692 - ICPMS Metals by EPA 200.8

Analysis Date: 01/19/2015

LCS1	Antimony Total ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)	20	0.62

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501120311	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		
MS2_201501130154	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		
MSD_201501120311	Antimony Total ICAP/MS	ND	50	52.4	ug/L	104	(70-130)	20	1.3
MSD2_201501130154	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	5.7
LCS1	Arsenic Total ICAP/MS		20	18.7	ug/L	94	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	0.53
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.978	ug/L	98	(50-150)		
MS_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)		
MS2_201501130154	Arsenic Total ICAP/MS	3.3	20	23.4	ug/L	101	(70-130)		
MSD_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)	20	0.0
MSD2_201501130154	Arsenic Total ICAP/MS	3.3	20	22.4	ug/L	96	(70-130)	20	4.4
LCS1	Barium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201501120311	Barium Total ICAP/MS	26	100	130	ug/L	104	(70-130)		
MS2_201501130154	Barium Total ICAP/MS	48	100	154	ug/L	106	(70-130)		
MSD_201501120311	Barium Total ICAP/MS	26	100	131	ug/L	105	(70-130)	20	0.77
MSD2_201501130154	Barium Total ICAP/MS	48	100	147	ug/L	100	(70-130)	20	4.7
LCS1	Beryllium Total ICAP/MS		5.0	4.54	ug/L	91	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.49	ug/L	90	(85-115)	20	1.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.03	ug/L	101	(70-130)		
MS2_201501130154	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)	20	0.60
MSD2_201501130154	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)	20	7.4
LCS1	Cadmium Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.52
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.580	ug/L	116	(50-150)		
MS_201501120311	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501130154	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501120311	Cadmium Total ICAP/MS	ND	20	20.5	ug/L	103	(70-130)	20	1.5
MSD2_201501130154	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	4.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chromium Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.30
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501120311	Chromium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201501130154	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501120311	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.90
MSD2_201501130154	Chromium Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)	20	5.1
LCS1	Cobalt Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.5	ug/L	100	(85-115)	20	2.4
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.99	ug/L	100	(50-150)		
MS_201501120311	Cobalt Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MS2_201501130154	Cobalt Total ICAP/MS	ND	100	99.3	ug/L	99	(70-130)		
MSD_201501120311	Cobalt Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)	20	0.20
MSD2_201501130154	Cobalt Total ICAP/MS	ND	100	94.1	ug/L	94	(70-130)	20	5.4
LCS1	Copper dissolved ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper dissolved ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MSD_201501120311	Copper dissolved ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
LCS1	Copper Total ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper Total ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MS2_201501130154	Copper Total ICAP/MS	ND	100	94.7	ug/L	95	(70-130)		
MSD_201501120311	Copper Total ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
MSD2_201501130154	Copper Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)	20	4.8
LCS1	Lead Total ICAP/MS		20	18.1	ug/L	91	(85-115)		
LCS2	Lead Total ICAP/MS		20	18.0	ug/L	90	(85-115)	20	0.55
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	100	(50-150)		
MS_201501120311	Lead Total ICAP/MS	ND	20	18.3	ug/L	92	(70-130)		
MS2_201501130154	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MSD_201501120311	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	0.55
MSD2_201501130154	Lead Total ICAP/MS	ND	20	17.5	ug/L	88	(70-130)	20	5.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Molybdenum dissolved ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.99	ug/L	99	(50-150)		
MS_201501120311	Molybdenum dissolved ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MSD_201501120311	Molybdenum dissolved ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
LCS1	Molybdenum Total ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.99	ug/L	99	(50-150)		
MS_201501120311	Molybdenum Total ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MS2_201501130154	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MSD_201501120311	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
MSD2_201501130154	Molybdenum Total ICAP/MS	ND	100	92.5	ug/L	92	(70-130)	20	6.1
LCS1	Nickel Total ICAP/MS		50	45.9	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.9	ug/L	94	(85-115)	20	2.2
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201501120311	Nickel Total ICAP/MS	ND	50	45.8	ug/L	91	(70-130)		
MS2_201501130154	Nickel Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD_201501120311	Nickel Total ICAP/MS	ND	50	46.7	ug/L	93	(70-130)	20	2.0
MSD2_201501130154	Nickel Total ICAP/MS	ND	50	44.3	ug/L	88	(70-130)	20	4.8
LCS1	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.51	ug/L	110	(50-150)		
MS_201501120311	Selenium Total ICAP/MS	ND	20	23.5	ug/L	116	(70-130)		
MS2_201501130154	Selenium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)		
MSD_201501120311	Selenium Total ICAP/MS	ND	20	23.4	ug/L	116	(70-130)	20	0.43
MSD2_201501130154	Selenium Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	3.7
LCS1	Thallium Total ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Thallium Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	1.1
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	101	(50-150)		
MS_201501120311	Thallium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)		
MS2_201501130154	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)		
MSD_201501120311	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	1.6
MSD2_201501130154	Thallium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	5.4

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Vanadium Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)	20	1.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.96	ug/L	99	(50-150)		
MS_201501120311	Vanadium Total ICAP/MS	ND	100	98.6	ug/L	99	(70-130)		
MS2_201501130154	Vanadium Total ICAP/MS	7.2	100	106	ug/L	99	(70-130)		
MSD_201501120311	Vanadium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.4
MSD2_201501130154	Vanadium Total ICAP/MS	7.2	100	102	ug/L	95	(70-130)	20	3.9
LCS1	Zinc Total ICAP/MS		100	89.1	ug/L	89	(85-115)		
LCS2	Zinc Total ICAP/MS		100	90.8	ug/L	91	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	19.4	ug/L	97	(50-150)		
MS_201501120311	Zinc Total ICAP/MS	ND	100	99.1	ug/L	99	(70-130)		
MS2_201501130154	Zinc Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)		
MSD_201501120311	Zinc Total ICAP/MS	ND	100	99.8	ug/L	100	(70-130)	20	0.80
MSD2_201501130154	Zinc Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	6.1

QC Ref# 814885 - ICPMS Metals by EPA 200.8

Analysis Date: 01/19/2015

LCS1	Silver dissolved ICAP/MS		50	45.3	ug/L	91	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	47.7	ug/L	96	(85-115)	20	5.2
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.471	ug/L	94	(50-150)		
MS_201501080756	Silver dissolved ICAP/MS	ND	50	35.6	ug/L	71	(70-130)		
MS2_201501080754	Silver dissolved ICAP/MS	ND	50	28.9	ug/L	<u>58</u>	(70-130)		
MSD_201501080756	Silver dissolved ICAP/MS	ND	50	38.8	ug/L	77	(70-130)	20	8.6
MSD2_201501080754	Silver dissolved ICAP/MS	ND	50	29.2	ug/L	<u>58</u>	(70-130)	20	1.0

QC Ref# 815041 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 01/21/2015

LCS1	Total phosphorus as P		0.4	0.383	mg/L	96	(90-110)		
LCS2	Total phosphorus as P		0.4	0.399	mg/L	100	(90-110)	20	4.1
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0235	mg/L	118	(50-150)		
MS_201501070231	Total phosphorus as P	1.5	0.4	2.46	mg/L	<u>117</u>	(90-110)		
MS_201501080495	Total phosphorus as P	ND	0.4	0.340	mg/L	<u>81</u>	(90-110)		
MSD_201501070231	Total phosphorus as P	1.5	0.4	2.40	mg/L	109	(90-110)	20	2.5
MSD_201501080495	Total phosphorus as P	ND	0.4	0.325	mg/L	<u>78</u>	(90-110)	20	4.5

QC Ref# 815373 - ICPMS Metals by EPA 200.8

Analysis Date: 01/20/2015

LCS1	Silver dissolved ICAP/MS		50	47.7	ug/L	95	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	44.1	ug/L	88	(85-115)	20	7.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.478	ug/L	96	(50-150)		
MS_201501140450	Silver dissolved ICAP/MS	ND	50	22.4	ug/L	<u>45</u>	(70-130)		
MS2_201501140760	Silver dissolved ICAP/MS	ND	50	13.6	ug/L	<u>27</u>	(70-130)		
MSD_201501140450	Silver dissolved ICAP/MS	ND	50	20.6	ug/L	<u>41</u>	(70-130)	20	8.4
MSD2_201501140760	Silver dissolved ICAP/MS	ND	50	24.5	ug/L	<u>49</u>	(70-130)	20	<u>57</u>

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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750 Royal Oaks Drive, Suite 100
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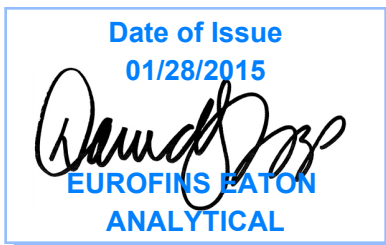


AT-1807

Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 515135
Project: GEOSYNTEC
Group: GEOSYNTEC-SB

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 515135
 Project: GEOSYNTEC
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 08, 2015** at **1047**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201501080493	FP-4-20150107	01/07/2015 0920
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501080494	FP-2-20150107	01/07/2015 1120
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501080495	QCEB-3-20150107	01/07/2015 1200
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501080496	QCTB-3-20150107	01/07/2015 0920
	@THM524 TB @VOAPP TB	

Test Description

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 515135
 Project: GEOSYNTEC
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 08, 2015** at **1047**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
	@ICPMS -- ICPMS Metals	
	@ICPMS -- ICPMS Metals	
	@QUANT2000 -- Quantitray Coliforms	
	@THM524 -- Volatile Organics by GCMS	
	@THM524 TB -- Volatile Organics by GCMS	
	@VOAPP -- Volatile Organics by EPA 624	
	@VOAPP TB -- Volatile Organics by EPA 624	



Eaton Analytical

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS:

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona
 Monrovia 3.4-0.2 =

3.2 °C (Compliance: 4 ± 2 °C)
3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen Partially Frozen Thawed No Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other:

SAMPLES CHECKED AGAINST COC BY: BP

SAMPLES LOGGED IN BY:

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:
 Geosyntec Consultants
 Attn: Ryan Smith - 805-897-3800

PROJECT CODE:

S30718

EEA CLIENT CODE:

SAMPLE GROUP:

TAT requested: rush by adv notice only

STD 1 wk 3 day 2 day 1 day

SAMPLE DATE

SAMPLE TIME

SAMPLE ID

CLIENT LAB ID

MATRIX *

FIELD DATA

FIELD DATA

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES
 - Requires state forms
 REGULATION INVOLVED:

17/15 0920

FP-4-20150107

FP-2-20150107

RGW

RGW

BW

BW

SEE ATTACHED BOTTLE ORDER FOR ANALYSES
 list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

17/15 1120

QCCEB-3-20150107

QCCEB-3-20150107

BW

BW

see comments

X

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES
 Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)
 (check for yes), OR
 (check for yes)

17/15 -

QCCTB-3-20150107

Neena 1/8
10:49

BW

BW

Analyze per Client Conversation

X

SAMPLER COMMENTS

17/15 0920

FP-4-20150107

FP-2-20150107

RGW

RGW

BW

BW

SEE ATTACHED BOTTLE ORDER FOR ANALYSES
 list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

17/15 1120

QCCEB-3-20150107

QCCEB-3-20150107

BW

BW

see comments

X

COMPLIANCE SAMPLES NON-COMPLIANCE SAMPLES
 Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)
 (check for yes), OR
 (check for yes)

17/15 -

QCCTB-3-20150107

Neena 1/8
10:49

BW

BW

Analyze per Client Conversation

X

SAMPLER COMMENTS

* MATRIX TYPES: RSW = Raw Surface Water
 RGW = Raw Ground Water
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

SEAW = Sea Water
 WW = Waste Water
 BW = Bottled Water
 SW = Storm Water

SO = Soil
 SL = Sludge
 O = Other - Please Identify

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		Brian Franke	Geosyntec / Staff Geologist	1/7/15	13:00
RECEIVED BY:		Marcy Escalante	EEA	1/8/15	10:47
RELINQUISHED BY:					
RECEIVED BY:					

Note: Sampler Please return this paper with your samples

Kit #: 103306
Created By: DST
Deliver By: 12/29/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: GEOSYNTEC-SB
PO#/JOB#:

Ship Sample Kits to
Geosyntec Consultants
924 Anacapa Street, Suite 4A
Santa Barbara, CA 93101

Attn: Brian Franz

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
1210 South Highway 395
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if applicable	UN DOT #
18	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
18	@ICPMS, Surfactants	1 500ml poly no preservative	
18	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
18	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
4	@THM524 TB	3 40ml amber glass vial 1 drop thio (8%) + H2O	
18	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
4	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
18	Alkalinity in CaCO3 units, PH (H3=past HT not compliant)	1 250ml poly no preservative	
18	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
18	Chloride, Nitrate as Nitrogen by IC, Sulfate	1 125ml poly no preservative	
18	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
18	Orthophosphate as P	1 125ml poly OPO4_no preservative	
18	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

SHIPPING: Please deliver Dec 29th to include sampling instructions and wet ice packing instructions. Separate cooler for each sample point and Blank. And include 4 gallons of DI or lab reagent water.

From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



J142214092303uv

Olanca, CA 93549

Ship Date: 07JAN15
ActWgt: 29.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158

BILL SENDER

Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

Ref #
Invoice #
PO #
Dept #

3 of 3

THU - 08 JAN AA
STANDARD OVERNIGHT

MPS# 7724 9884 6767

0263

Mstr# 7724 9884 6469

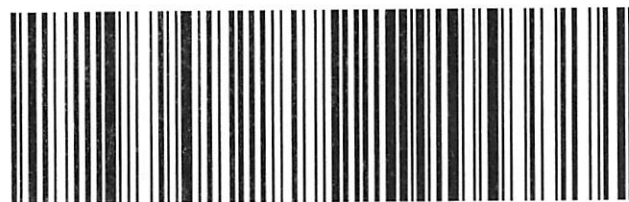
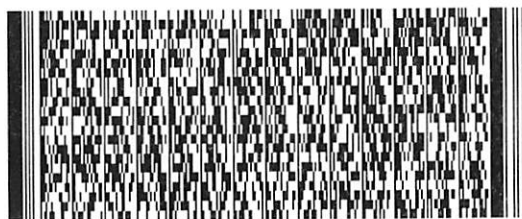
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CA-US

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92 WHPA



522G18F15J8AC9

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



Olancho, CA 93549

Ship Date: 07JAN15
ActWgt: 17.0 LB
CAD: 7147219/NET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

1 of 3

THU - 08 JAN AA
STANDARD OVERNIGHT

TRK# 7724 9884 6469

0201

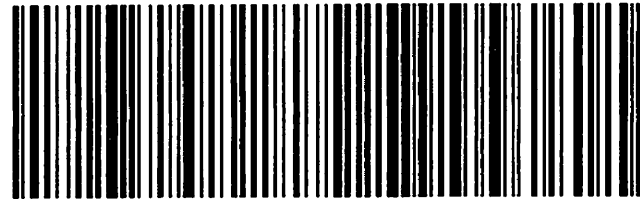
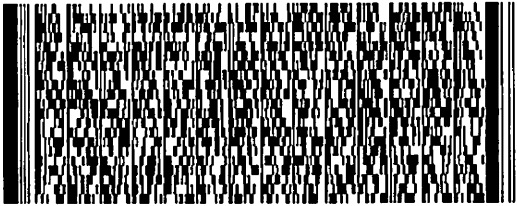
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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Olancha, CA 93549

Origin ID: IYKA



Ship Date: 07JAN15
ActWgt: 21.0 LB
CAD: 7147219/NET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
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THU - 08 JAN AA
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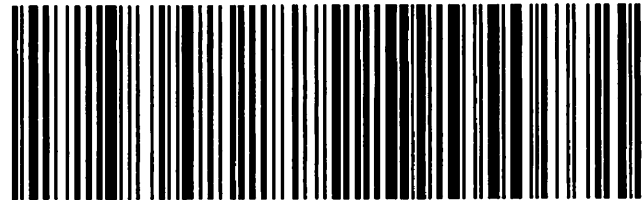
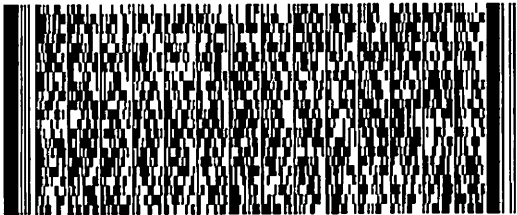
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750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 515135

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201501080493	<u>FP-4-20150107</u>			
01/09/2015 15:36	Alkalinity in CaCO3 units		60		mg/L	2
01/14/2015 14:00	Ammonia Nitrogen		0.12		mg/L	0.05
01/12/2015 20:55	Arsenic Total ICAP/MS		98	10	ug/L	1
01/14/2015 18:44	Barium dissolved ICAP/MS		38		ug/L	2
01/12/2015 21:19	Barium Total ICAP/MS		6700	2000	ug/L	20
01/12/2015 22:13	Beryllium Total ICAP/MS		14	4	ug/L	1
01/12/2015 11:49	Bicarb.Alkalinity as HCO3calc		73		mg/L	2
01/12/2015 20:55	Cadmium Total ICAP/MS		1.7	5	ug/L	0.5
01/12/2015 17:44	Calcium Total ICAP		320		mg/L	5
01/08/2015 18:17	Chloride		3.3	250	mg/L	1
01/12/2015 21:19	Chromium Total ICAP/MS		810	100	ug/L	10
01/12/2015 20:55	Cobalt Total ICAP/MS		170		ug/L	2
01/12/2015 20:55	Copper Total ICAP/MS		550	1300	ug/L	2
01/13/2015 13:48	Kjeldahl Nitrogen		3.1		mg/L	0.2
01/12/2015 20:55	Lead Total ICAP/MS		290	15	ug/L	0.5
01/12/2015 17:44	Magnesium Total ICAP		420		mg/L	0.5
01/14/2015 18:44	Molybdenum dissolved ICAP/MS		3.5		ug/L	2
01/12/2015 20:55	Molybdenum Total ICAP/MS		6.3		ug/L	2
01/12/2015 20:55	Nickel Total ICAP/MS		120		ug/L	5
01/08/2015 18:17	Nitrate as Nitrogen by IC		0.56	10	mg/L	0.1
01/09/2015 08:58	Orthophosphate as P		1.2		mg/L	0.05
01/09/2015 15:36	PH (H3=past HT not compliant)		6.9		Units	0.1
01/12/2015 20:55	Silver Total ICAP/MS		3.5	100	ug/L	0.5
01/12/2015 17:44	Sodium Total ICAP		44		mg/L	5
01/08/2015 18:17	Sulfate		38	250	mg/L	0.5
01/12/2015 20:55	Thallium Total ICAP/MS		7.8	2	ug/L	1
01/08/2015 17:00	Total Chlorine Residual (H3=past HT not compliant)		0.13	4	mg/L	0.1
01/09/2015 14:24	Total Dissolved Solids (TDS)		560	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		3.7		mg/L	0.2
01/22/2015 16:41	Total phosphorus as P		2.4		mg/L	0.1
01/12/2015 21:19	Vanadium Total ICAP/MS		920		ug/L	30
01/12/2015 21:19	Zinc Total ICAP/MS		4400	5000	ug/L	200
		201501080494	<u>FP-2-20150107</u>			
01/09/2015 15:45	Alkalinity in CaCO3 units		120		mg/L	2
01/14/2015 14:03	Ammonia Nitrogen		0.36		mg/L	0.05

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Hits
 Report: 515135

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/12/2015 20:57	Arsenic Total ICAP/MS		53	10	ug/L	1
01/14/2015 19:08	Barium dissolved ICAP/MS		50		ug/L	20
01/12/2015 21:21	Barium Total ICAP/MS		1500	2000	ug/L	20
01/12/2015 22:14	Beryllium Total ICAP/MS		3.1	4	ug/L	1
01/12/2015 11:49	Bicarb.Alkalinity as HCO3calc		140		mg/L	2
01/12/2015 20:57	Cadmium Total ICAP/MS		0.78	5	ug/L	0.5
01/12/2015 17:48	Calcium Total ICAP		110		mg/L	5
01/14/2015 7:47	Carbon disulfide		1.6		ug/L	0.5
01/08/2015 18:30	Chloride		8.9	250	mg/L	1
01/12/2015 21:21	Chromium Total ICAP/MS		530	100	ug/L	10
01/12/2015 20:57	Cobalt Total ICAP/MS		36		ug/L	2
01/12/2015 20:57	Copper Total ICAP/MS		110	1300	ug/L	2
01/13/2015 13:49	Kjeldahl Nitrogen		0.88		mg/L	0.2
01/12/2015 20:57	Lead Total ICAP/MS		48	15	ug/L	0.5
01/12/2015 17:48	Magnesium Total ICAP		21		mg/L	0.5
01/19/2015 16:14	Molybdenum dissolved ICAP/MS		150		ug/L	20
01/12/2015 20:57	Molybdenum Total ICAP/MS		64		ug/L	2
01/12/2015 20:57	Nickel Total ICAP/MS		46		ug/L	5
01/08/2015 18:30	Nitrate as Nitrogen by IC		6.9	10	mg/L	0.1
01/08/2015 18:30	Nitrite Nitrogen by IC		0.057	1	mg/L	0.05
01/09/2015 08:57	Orthophosphate as P		1.0		mg/L	0.05
01/09/2015 15:45	PH (H3=past HT not compliant)		7.8		Units	0.1
01/12/2015 20:57	Silver Total ICAP/MS		0.56	100	ug/L	0.5
01/12/2015 17:48	Sodium Total ICAP		68		mg/L	5
01/08/2015 18:30	Sulfate		85	250	mg/L	0.5
01/12/2015 20:57	Thallium Total ICAP/MS		2.2	2	ug/L	1
01/09/2015 14:25	Total Dissolved Solids (TDS)		760	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		7.8		mg/L	0.2
01/21/2015 17:55	Total phosphorus as P		0.97		mg/L	0.02
01/12/2015 20:57	Vanadium Total ICAP/MS		180		ug/L	3
01/12/2015 20:57	Zinc Total ICAP/MS		630	5000	ug/L	20
201501080495 <u>QCEB-3-20150107</u>						
01/14/2015 21:48	Chloroform (Trichloromethane)		0.89		ug/L	0.5
01/14/2015 21:48	Chloroform (Trichloromethane)		0.89		ug/L	0.5
01/09/2015 15:53	PH (H3=past HT not compliant)		5.8		Units	0.1
01/14/2015 21:48	Total THM		0.89	80	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FP-4-20150107 (201501080493)						Sampled on 01/07/2015 0920		
EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Arsenic Total ICAP/MS	98	ug/L	1	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Barium dissolved ICAP/MS	38	ug/L	2	1
1/9/2015	01/12/2015	21:19 813982	(EPA 200.8)	Barium Total ICAP/MS	6700	ug/L	20	10
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:13 813971	(EPA 200.8)	Beryllium Total ICAP/MS	14	ug/L	1	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Cadmium Total ICAP/MS	1.7	ug/L	0.5	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	21:19 813982	(EPA 200.8)	Chromium Total ICAP/MS	810	ug/L	10	10
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Cobalt Total ICAP/MS	170	ug/L	2	1
1/9/2015	01/19/2015	16:11 814692	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Copper Total ICAP/MS	550	ug/L	2	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Lead Total ICAP/MS	290	ug/L	0.5	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	3.5	ug/L	2	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Molybdenum Total ICAP/MS	6.3	ug/L	2	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Nickel Total ICAP/MS	120	ug/L	5	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/19/2015	14:39 814885	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Silver Total ICAP/MS	3.5	ug/L	0.5	1
1/9/2015	01/19/2015	16:11 814692	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	20:55 813982	(EPA 200.8)	Thallium Total ICAP/MS	7.8	ug/L	1	1
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/12/2015	21:19 813982	(EPA 200.8)	Vanadium Total ICAP/MS	920	ug/L	30	10
1/9/2015	01/14/2015	18:44 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/12/2015	21:19 813982	(EPA 200.8)	Zinc Total ICAP/MS	4400	ug/L	200	10
EPA 200.7 - ICP Metals								
1/9/2015	01/12/2015	17:44 813793	(EPA 200.7)	Calcium Total ICAP	320	mg/L	5	5

Rounding on totals after summation.
 (c) - indicates calculated results

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/12/2015	17:44 813793	(EPA 200.7)	Magnesium Total ICAP	420	mg/L	0.5	5
1/9/2015	01/12/2015	17:44 813793	(EPA 200.7)	Sodium Total ICAP	44	mg/L	5	5
SM 9223B - Quantitray Coliforms								
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	3.7	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/12/2015	11:49	(SM2330B)	Bicarb.Alkalinity as HCO3calc	73	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/08/2015	18:17 813267	(EPA 300.0)	Nitrate as Nitrogen by IC	0.56	mg/L	0.1	1
	01/08/2015	18:17 813267	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/08/2015	18:17 813269	(EPA 300.0)	Chloride	3.3	mg/L	1	1
	01/08/2015	18:17 813269	(EPA 300.0)	Sulfate	38	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:41 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	2.4 (B7)	mg/L	0.1	5
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	13:48 814081	(EPA 351.2)	Kjeldahl Nitrogen	3.1	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	14:00 814274	(EPA 350.1)	Ammonia Nitrogen	0.12	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	1,2-Dichloroethane-d4	116	%		1
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	4-Bromofluorobenzene	106	%		1

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Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	21:25 814447	(EPA 524.2)	Toluene-d8	84	%		1
EPA 624 - Volatile Organics by EPA 624								
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Acetone	ND	ug/L	10	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Bromodichloromethane	ND (L1)	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1

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Laboratory Data
 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Vinyl Acetate	ND (L1)	ug/L	10	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	1,2-Dichloroethane-d4	116	%		1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	4-Bromofluorobenzene	106	%		1
1/14/2015	01/14/2015	21:25 814454	(EPA 624)	Toluene-d8	84	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/09/2015	15:36 813396	(SM 2320B)	Alkalinity in CaCO3 units	60	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/9/2015	01/09/2015	14:24 813440	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	560	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/09/2015	15:36 813400	(SM4500-HB)	PH (H3=past HT not compliant)	6.9	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/08/2015	15:31 813263	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	08:58 813253	(4500P-E/365.1)	Orthophosphate as P	1.2	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813462	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	0.13 (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813458	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
FP-2-20150107 (201501080494)								
EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	19:08 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	20:57 813982	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:08 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	20:57 813982	(EPA 200.8)	Arsenic Total ICAP/MS	53	ug/L	1	1
1/9/2015	01/14/2015	19:08 814106	(EPA 200.8)	Barium dissolved ICAP/MS	50	ug/L	20	10

Sampled on 01/07/2015 1120

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 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/9/2015	01/12/2015	21:21	813982	(EPA 200.8)	Barium Total ICAP/MS	1500	ug/L	20	10
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	22:14	813971	(EPA 200.8)	Beryllium Total ICAP/MS	3.1	ug/L	1	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	5	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Cadmium Total ICAP/MS	0.78	ug/L	0.5	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	21:21	813982	(EPA 200.8)	Chromium Total ICAP/MS	530	ug/L	10	10
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Cobalt Total ICAP/MS	36	ug/L	2	1
1/9/2015	01/15/2015	13:40	814640	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	20	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Copper Total ICAP/MS	110	ug/L	2	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	5	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Lead Total ICAP/MS	48	ug/L	0.5	1
1/9/2015	01/19/2015	16:14	814692	(EPA 200.8)	Molybdenum dissolved ICAP/MS	150	ug/L	20	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Molybdenum Total ICAP/MS	64	ug/L	2	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	50	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Nickel Total ICAP/MS	46	ug/L	5	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	50	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/19/2015	14:40	814885	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Silver Total ICAP/MS	0.56	ug/L	0.5	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Thallium Total ICAP/MS	2.2	ug/L	1	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	30	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Vanadium Total ICAP/MS	180	ug/L	3	1
1/9/2015	01/14/2015	19:08	814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	200	10
1/9/2015	01/12/2015	20:57	813982	(EPA 200.8)	Zinc Total ICAP/MS	630	ug/L	20	1
EPA 200.7 - ICP Metals									
1/9/2015	01/12/2015	17:48	813793	(EPA 200.7)	Calcium Total ICAP	110	mg/L	5	5
1/9/2015	01/12/2015	17:48	813793	(EPA 200.7)	Magnesium Total ICAP	21	mg/L	0.5	5
1/9/2015	01/12/2015	17:48	813793	(EPA 200.7)	Sodium Total ICAP	68	mg/L	5	5
SM 9223B - Quantitray Coliforms									
1/8/2015	01/09/2015	14:23	813467	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23	813467	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23	813467	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1

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 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour Total Coliform Confrm (Small Wells)	ND	PW	1	1	
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1	
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1	
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria (P/A)	A			1	
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1	
EPA 353-351 - Total Nitrogen-Calc									
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	7.8	mg/L	0.2	1	
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	01/12/2015	11:49	(SM2330B)	Bicarb.Alkalinity as HCO3calc	140	mg/L	2	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	01/08/2015	18:30 813267	(EPA 300.0)	Nitrate as Nitrogen by IC	6.9	mg/L	0.1	1	
	01/08/2015	18:30 813267	(EPA 300.0)	Nitrite Nitrogen by IC	0.057	mg/L	0.05	1	
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	01/08/2015	18:30 813269	(EPA 300.0)	Chloride	8.9	mg/L	1	1	
	01/08/2015	18:30 813269	(EPA 300.0)	Sulfate	85	mg/L	0.5	1	
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)									
	01/21/2015	17:55 815041	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.97	mg/L	0.02	1	
EPA 351.2 - Total Kjeldahl Nitrogen									
	01/13/2015	13:49 814081	(EPA 351.2)	Kjeldahl Nitrogen	0.88	mg/L	0.2	1	
EPA 350.1 - Ammonia Nitrogen									
	01/14/2015	14:03 814274	(EPA 350.1)	Ammonia Nitrogen	0.36	mg/L	0.05	1	
EPA 524.2 - Volatile Organics by GCMS									
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Total THM	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	1,2-Dichloroethane-d4	97	%		1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	4-Bromofluorobenzene	97	%		1	
1/13/2015	01/14/2015	7:47 814145	(EPA 524.2)	Toluene-d8	95	%		1	
EPA 624 - Volatile Organics by EPA 624									
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1	
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1	

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Acetone	ND	ug/L	10	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Carbon disulfide	1.6	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Chlorodibromomethane	ND (L1)	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47	814150	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	1,2-Dichloroethane-d4	97	%		1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	4-Bromofluorobenzene	97	%		1
1/13/2015	01/14/2015	7:47 814150	(EPA 624)	Toluene-d8	95	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/09/2015	15:45 813396	(SM 2320B)	Alkalinity in CaCO3 units	120	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/9/2015	01/09/2015	14:25 813440	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	760	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/09/2015	15:45 813400	(SM4500-HB)	PH (H3=past HT not compliant)	7.8	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/08/2015	15:30 813263	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	08:57 813253	(4500P-E/365.1)	Orthophosphate as P	1.0	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813462	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813458	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

QCEB-3-20150107 (201501080495)

Sampled on 01/07/2015 1200

EPA 200.8 - ICPMS Metals

1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1

Rounding on totals after summation.
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Laboratory Data
 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/15/2015	13:19 814636	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:31 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/13/2015	21:01 814030	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
1/9/2015	01/14/2015	16:39 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/09/2015	20:30 813444	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/12/2015	20:37 813794	(EPA 200.7)	Calcium Total ICAP	ND	mg/L	1	1
1/9/2015	01/12/2015	20:37 813794	(EPA 200.7)	Magnesium Total ICAP	ND	mg/L	0.1	1
1/9/2015	01/12/2015	20:37 813794	(EPA 200.7)	Sodium Total ICAP	ND	mg/L	1	1
SM 9223B - Quantitray Coliforms								
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria	<1	MPN/100 mL	1	1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/8/2015	01/09/2015	14:23 813467	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	ND	mg/L	0.2	1

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 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/12/2015	11:49	(SM2330B)	Bicarb.Alkalinity as HCO3calc	ND	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/08/2015	18:43	813267 (EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	01/08/2015	18:43	813267 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/08/2015	18:43	813269 (EPA 300.0)	Chloride	ND	mg/L	1	1
	01/08/2015	18:43	813269 (EPA 300.0)	Sulfate	ND	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:47	815041 (SM4500-PE/EPA 365.1)	Total phosphorus as P	ND (BA,M2)	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	13:51	814081 (EPA 351.2)	Kjeldahl Nitrogen	ND	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	14:05	814274 (EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Chloroform (Trichloromethane)	0.89	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Total THM	0.89	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	1,2-Dichloroethane-d4	113	%		1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	4-Bromofluorobenzene	100	%		1
1/14/2015	01/14/2015	21:48	814447 (EPA 524.2)	Toluene-d8	82	%		1
EPA 624 - Volatile Organics by EPA 624								
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	2-Hexanone	ND	ug/L	10	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	Acetone	ND	ug/L	10	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	21:48	814454 (EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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 Report: 515135

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Bromodichloromethane	ND (L1)	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Chloroform (Trichloromethane)	0.89	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Vinyl Acetate	ND (L1)	ug/L	10	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	1,2-Dichloroethane-d4	113	%		1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	4-Bromofluorobenzene	100	%		1
1/14/2015	01/14/2015	21:48 814454	(EPA 624)	Toluene-d8	82	%		1

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P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 2320B - Alkalinity in CaCO3 units								
	01/09/2015	15:53 813396	(SM 2320B)	Alkalinity in CaCO3 units	ND	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/9/2015	01/09/2015	14:26 813440	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/09/2015	15:53 813400	(SM4500-HB)	PH (H3=past HT not compliant)	5.8	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/08/2015	15:32 813263	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	08:54 813253	(4500P-E/365.1)	Orthophosphate as P	ND	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813462	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/08/2015	17:00 813458	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
<u>QCTB-3-20150107 (201501080496)</u>					Sampled on 01/07/2015 0920			
EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	1,2-Dichloroethane-d4	117	%		1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	4-Bromofluorobenzene	103	%		1
1/14/2015	01/14/2015	22:34 814447	(EPA 524.2)	Toluene-d8	81	%		1
EPA 624 - Volatile Organics by EPA 624								
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1

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Samples Received on:
 01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Acetone	ND	ug/L	10	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Bromodichloromethane	ND (L1)	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Vinyl Acetate	ND (L1)	ug/L	10	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	1,2-Dichloroethane-d4	117	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
Report: 515135

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/08/2015 1047

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	4-Bromofluorobenzene	103	%		1
1/14/2015	01/14/2015	22:34 814454	(EPA 624)	Toluene-d8	81	%		1

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Flags Legend:

B7 - Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

BA - Target analyte detected in method blank at or above the laboratory minimum reporting limits (MRL), but analyte not present in the sample.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

L1 - The associated blank spike recovery was above laboratory acceptance limits.

M2 - Matrix spike recovery was low; the associated blank spike recovery was acceptable.

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Crystal Geysler Roxane

QC Ref # 813253 - Orthophosphate as P (OPO4)

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/09/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813263 - Surfactants

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/08/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813267 - Nitrate, Nitrite by EPA 300.0

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/08/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813269 - Chloride, Sulfate by EPA 300.0

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/08/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813396 - Alkalinity in CaCO3 units

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/09/2015

Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4

QC Ref # 813400 - PH (H3=past HT not compliant)

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/09/2015

Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4

QC Ref # 813440 - Total Dissolved Solids (TDS)

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/09/2015

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

QC Ref # 813444 - ICPMS Metals

201501080495 QCEB-3-20150107

Analysis Date: 01/09/2015

Analyzed by: SXX

QC Ref # 813458 - Free Chlorine Residual (H3=past HT not complian

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/08/2015

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 813462 - Total Chlorine Residual (H3=past HT not complian

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/08/2015

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 813467 - Quantitray Coliforms

201501080493 FP-4-20150107

Analysis Date: 01/09/2015

Analyzed by: JM0D

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Crystal Geysler Roxane

201501080494	FP-2-20150107	Analyzed by: JM0D
201501080495	QCEB-3-20150107	Analyzed by: JM0D
QC Ref # 813793 - ICP Metals		Analysis Date: 01/12/2015
201501080493	FP-4-20150107	Analyzed by: NINA
201501080494	FP-2-20150107	Analyzed by: NINA
QC Ref # 813794 - ICP Metals		Analysis Date: 01/12/2015
201501080495	QCEB-3-20150107	Analyzed by: NINA
QC Ref # 813971 - ICPMS Metals		Analysis Date: 01/12/2015
201501080493	FP-4-20150107	Analyzed by: AZS
201501080494	FP-2-20150107	Analyzed by: AZS
QC Ref # 813982 - ICPMS Metals		Analysis Date: 01/12/2015
201501080493	FP-4-20150107	Analyzed by: AZS
201501080493	FP-4-20150107	Analyzed by: AZS
201501080494	FP-2-20150107	Analyzed by: AZS
201501080494	FP-2-20150107	Analyzed by: AZS
QC Ref # 814030 - ICPMS Metals		Analysis Date: 01/13/2015
201501080495	QCEB-3-20150107	Analyzed by: AZS
QC Ref # 814081 - Total Kjeldahl Nitrogen		Analysis Date: 01/13/2015
201501080493	FP-4-20150107	Analyzed by: KXS
201501080494	FP-2-20150107	Analyzed by: KXS
201501080495	QCEB-3-20150107	Analyzed by: KXS
QC Ref # 814105 - ICPMS Metals		Analysis Date: 01/14/2015
201501080495	QCEB-3-20150107	Analyzed by: SXX
QC Ref # 814106 - ICPMS Metals		Analysis Date: 01/14/2015
201501080493	FP-4-20150107	Analyzed by: SXX
201501080493	FP-4-20150107	Analyzed by: SXX
201501080494	FP-2-20150107	Analyzed by: SXX
QC Ref # 814145 - Volatile Organics by GCMS		Analysis Date: 01/14/2015
201501080494	FP-2-20150107	Analyzed by: KAM
QC Ref # 814150 - Volatile Organics by EPA 624		Analysis Date: 01/14/2015
201501080494	FP-2-20150107	Analyzed by: KAM
QC Ref # 814274 - Ammonia Nitrogen		Analysis Date: 01/14/2015
201501080493	FP-4-20150107	Analyzed by: MYH
201501080494	FP-2-20150107	Analyzed by: MYH
201501080495	QCEB-3-20150107	Analyzed by: MYH
QC Ref # 814447 - Volatile Organics by GCMS		Analysis Date: 01/14/2015
201501080493	FP-4-20150107	Analyzed by: KCP
201501080495	QCEB-3-20150107	Analyzed by: KCP
201501080496	QCTB-3-20150107	Analyzed by: KCP

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Crystal Geysler Roxane

QC Ref # 814454 - Volatile Organics by EPA 624

201501080493 FP-4-20150107
201501080495 QCEB-3-20150107
201501080496 QCTB-3-20150107

Analysis Date: 01/14/2015

Analyzed by: KCP
Analyzed by: KCP
Analyzed by: KCP

QC Ref # 814636 - ICPMS Metals

201501080495 QCEB-3-20150107

Analysis Date: 01/15/2015

Analyzed by: SXX

QC Ref # 814640 - ICPMS Metals

201501080494 FP-2-20150107

Analysis Date: 01/15/2015

Analyzed by: SXX

QC Ref # 814692 - ICPMS Metals

201501080493 FP-4-20150107
201501080493 FP-4-20150107
201501080494 FP-2-20150107

Analysis Date: 01/19/2015

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 814885 - ICPMS Metals

201501080493 FP-4-20150107
201501080494 FP-2-20150107

Analysis Date: 01/19/2015

Analyzed by: AZS
Analyzed by: AZS

QC Ref # 815041 - Total phosphorus as P (T-P)

201501080493 FP-4-20150107
201501080494 FP-2-20150107
201501080495 QCEB-3-20150107

Analysis Date: 01/22/2015

Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS

QC Ref # 815373 - ICPMS Metals

201501080495 QCEB-3-20150107

Analysis Date: 01/20/2015

Analyzed by: AZS

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813253 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 01/09/2015			
LCS1	Orthophosphate as P		0.25	0.260	mg/L	104	(90-110)		
LCS2	Orthophosphate as P		0.25	0.264	mg/L	106	(90-110)	20	1.5
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0140	mg/L	140	(50-150)		
MS_201501070539	Orthophosphate as P	ND	0.5	0.536	mg/L	107	(90-110)		
MS_201501080495	Orthophosphate as P	ND	0.5	0.515	mg/L	103	(90-110)		
MSD_201501070539	Orthophosphate as P	ND	0.5	0.506	mg/L	101	(90-110)	20	5.8
MSD_201501080495	Orthophosphate as P	ND	0.5	0.501	mg/L	100	(90-110)	20	2.8
QC Ref# 813263 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 01/08/2015			
LCS1	Surfactants		0.2	0.212	mg/L	106	(90-110)		
LCS2	Surfactants		0.2	0.214	mg/L	107	(90-110)	20	0.94
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0525	mg/L	105	(50-150)		
MS_201501080285	Surfactants	ND	0.2	0.236	mg/L	112	(80-120)		
MSD_201501080285	Surfactants	ND	0.2	0.242	mg/L	115	(80-120)	20	2.5
QC Ref# 813267 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 01/08/2015			
LCS1	Nitrate as Nitrogen by IC		2.5	2.48	mg/L	99	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.49	mg/L	99	(90-110)	20	0.40
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0489	mg/L	98	(50-150)		
MS_201501080227	Nitrate as Nitrogen by IC	ND	1.3	1.27	mg/L	101	(80-120)		
MS_201501080280	Nitrate as Nitrogen by IC	0.34	1.3	1.62	mg/L	102	(80-120)		
MSD_201501080227	Nitrate as Nitrogen by IC	ND	1.3	1.27	mg/L	101	(80-120)	20	0.0
MSD_201501080280	Nitrate as Nitrogen by IC	0.34	1.3	1.60	mg/L	101	(80-120)	20	1.2
LCS1	Nitrite Nitrogen by IC		1.0	1.00	mg/L	100	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.00	mg/L	101	(90-110)	20	1
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0476	mg/L	95	(50-150)		
MS_201501080227	Nitrite Nitrogen by IC	ND	0.5	0.522	mg/L	104	(80-120)		
MS_201501080280	Nitrite Nitrogen by IC	ND	0.5	0.512	mg/L	101	(80-120)		
MSD_201501080227	Nitrite Nitrogen by IC	ND	0.5	0.525	mg/L	105	(80-120)	20	0.57
MSD_201501080280	Nitrite Nitrogen by IC	ND	0.5	0.510	mg/L	100	(80-120)	20	0.39
QC Ref# 813269 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 01/08/2015			
LCS1	Chloride		25	24.9	mg/L	100	(90-110)		
LCS2	Chloride		25	25.0	mg/L	100	(90-110)	20	0.40

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.411	mg/L	82	(50-150)		
MS_201501080227	Chloride	ND	13	13.0	mg/L	100	(80-120)		
MS_201501080280	Chloride	28	13	39.9	mg/L	97	(80-120)		
MSD_201501080227	Chloride	ND	13	13.0	mg/L	100	(80-120)	20	0.0
MSD_201501080280	Chloride	28	13	39.7	mg/L	96	(80-120)	20	0.50
LCS1	Sulfate		50	51.9	mg/L	104	(90-110)		
LCS2	Sulfate		50	52.2	mg/L	104	(90-110)	20	0.58
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.972	mg/L	97	(50-150)		
MRLW	Sulfate		0.25	0.254	mg/L	102	(50-150)		
MS_201501080227	Sulfate	ND	25	26.7	mg/L	106	(80-120)		
MS_201501080280	Sulfate	30	25	56.5	mg/L	107	(80-120)		
MSD_201501080227	Sulfate	ND	25	26.8	mg/L	107	(80-120)	20	0.37
MSD_201501080280	Sulfate	30	25	56.2	mg/L	106	(80-120)	20	0.53
QC Ref# 813396 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 01/09/2015			
LCS1	Alkalinity in CaCO3 units		100	99.2	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.4	mg/L	100	(90-110)	20	0.30
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.06	mg/L	103	(50-150)		
MS_201501080176	Alkalinity in CaCO3 units	94	100	194	mg/L	99	(80-120)		
MS_201501080280	Alkalinity in CaCO3 units	95	100	198	mg/L	103	(80-120)		
MSD_201501080176	Alkalinity in CaCO3 units	94	100	194	mg/L	99	(80-120)	20	0.0
MSD_201501080280	Alkalinity in CaCO3 units	95	100	199	mg/L	104	(80-120)	20	0.50
QC Ref# 813400 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 01/09/2015			
DUP_201501080176	PH (H3=past HT not compliant)	8.0	0.01	8.07	Units		(0-20)	20	0.50
DUP_201501080280	PH (H3=past HT not compliant)	8.1	0.01	8.13	Units		(0-20)	20	0.25
LCS1	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.17
QC Ref# 813440 - Total Dissolved Solids (TDS) by E160.1/SM2540C						Analysis Date: 01/09/2015			
DUP_201501070087	Total Dissolved Solid (TDS)	280		280	mg/L		(0-20)	20	1.4
DUP_201501070292	Total Dissolved Solid (TDS)	1600		1630	mg/L		(0-20)	20	0.99
LCS1	Total Dissolved Solid (TDS)		175	164	mg/L	94	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	702	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	7.00	mg/L	70	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813444 - ICPMS Metals by EPA 200.8						Analysis Date: 01/09/2015			
LCS1	Antimony Total ICAP/MS		50	48.1	ug/L	96	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.8	ug/L	96	(85-115)	20	0.63
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.911	ug/L	91	(50-150)		
MS_201501080495	Antimony Total ICAP/MS	ND	50	49.4	ug/L	99	(70-130)		
MS2_201501080432	Antimony Total ICAP/MS	ND	50	51.8	ug/L	103	(70-130)		
MSD_201501080495	Antimony Total ICAP/MS	ND	50	49.7	ug/L	99	(70-130)	20	0.61
MSD2_201501080432	Antimony Total ICAP/MS	ND	50	50.5	ug/L	101	(70-130)	20	2.5
LCS1	Arsenic Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.1	ug/L	100	(85-115)	20	1.5
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501080495	Arsenic Total ICAP/MS	ND	20	20.7	ug/L	103	(70-130)		
MS2_201501080432	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501080495	Arsenic Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)	20	0.96
MSD2_201501080432	Arsenic Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.13	ug/L	106	(50-150)		
MS_201501080495	Barium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201501080432	Barium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MSD_201501080495	Barium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.0
MSD2_201501080432	Barium Total ICAP/MS	ND	100	105	ug/L	104	(70-130)	20	0.95
LCS1	Beryllium Total ICAP/MS		5.0	5.22	ug/L	104	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.24	ug/L	105	(85-115)	20	0.38
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501080495	Beryllium Total ICAP/MS	ND	5.0	5.60	ug/L	112	(70-130)		
MS2_201501080432	Beryllium Total ICAP/MS	ND	5.0	5.72	ug/L	114	(70-130)		
MSD_201501080495	Beryllium Total ICAP/MS	ND	5.0	5.74	ug/L	115	(70-130)	20	2.5
MSD2_201501080432	Beryllium Total ICAP/MS	ND	5.0	5.88	ug/L	118	(70-130)	20	2.8
LCS1	Cadmium Total ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.9	ug/L	100	(85-115)	20	2.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.480	ug/L	96	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501080495	Cadmium Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)		
MS2_201501080432	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)		
MSD_201501080495	Cadmium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	0.95
MSD2_201501080432	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	2.9
LCS1	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	2.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.960	ug/L	96	(50-150)		
MS_201501080495	Chromium Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501080432	Chromium Total ICAP/MS	22	100	119	ug/L	97	(70-130)		
MSD_201501080495	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
MSD2_201501080432	Chromium Total ICAP/MS	22	100	117	ug/L	95	(70-130)	20	1.7
LCS1	Cobalt Total ICAP/MS		100	97.6	ug/L	98	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.7	ug/L	100	(85-115)	20	2.1
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201501080495	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501080432	Cobalt Total ICAP/MS	ND	100	93.9	ug/L	94	(70-130)		
MSD_201501080495	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0
MSD2_201501080432	Cobalt Total ICAP/MS	ND	100	95.2	ug/L	95	(70-130)	20	1.5
LCS1	Copper Total ICAP/MS		100	97.0	ug/L	97	(85-115)		
LCS2	Copper Total ICAP/MS		100	99.2	ug/L	99	(85-115)	20	2.3
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.78	ug/L	89	(50-150)		
MS_201501080495	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501080432	Copper Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)		
MSD_201501080495	Copper Total ICAP/MS	ND	100	103	ug/L	103	(70-130)	20	3.0
MSD2_201501080432	Copper Total ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	1.7
LCS1	Lead Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.51
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.510	ug/L	102	(50-150)		
MS_201501080495	Lead Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501080432	Lead Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MSD_201501080495	Lead Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	0.99
MSD2_201501080432	Lead Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	3.1
LCS1	Molybdenum Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.88	ug/L	94	(50-150)		
MS_201501080495	Molybdenum Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MS2_201501080432	Molybdenum Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MSD_201501080495	Molybdenum Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	0.0
MSD2_201501080432	Molybdenum Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.98
LCS1	Nickel Total ICAP/MS		50	47.8	ug/L	96	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.1	ug/L	98	(85-115)	20	2.7
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.04	ug/L	101	(50-150)		
MS_201501080495	Nickel Total ICAP/MS	ND	50	49.2	ug/L	99	(70-130)		
MS2_201501080432	Nickel Total ICAP/MS	ND	50	46.9	ug/L	94	(70-130)		
MSD_201501080495	Nickel Total ICAP/MS	ND	50	50.1	ug/L	100	(70-130)	20	1.6
MSD2_201501080432	Nickel Total ICAP/MS	ND	50	45.9	ug/L	92	(70-130)	20	2.2
LCS1	Selenium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.76	ug/L	115	(50-150)		
MS_201501080495	Selenium Total ICAP/MS	ND	20	21.4	ug/L	107	(70-130)		
MS2_201501080432	Selenium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_201501080495	Selenium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)	20	1.9
MSD2_201501080432	Selenium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	0.98
LCS1	Thallium Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.52
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.987	ug/L	99	(50-150)		
MS_201501080495	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501080432	Thallium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)		
MSD_201501080495	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	2.0
MSD2_201501080432	Thallium Total ICAP/MS	ND	20	18.9	ug/L	95	(70-130)	20	3.1
LCS1	Vanadium Total ICAP/MS		100	98.6	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	0.71
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.96	ug/L	99	(50-150)		
MS_201501080495	Vanadium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501080432	Vanadium Total ICAP/MS	ND	100	97.2	ug/L	97	(70-130)		
MSD_201501080495	Vanadium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0
MSD2_201501080432	Vanadium Total ICAP/MS	ND	100	95.5	ug/L	96	(70-130)	20	1.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Zinc Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Zinc Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.1	ug/L	101	(50-150)		
MS_201501080495	Zinc Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MS2_201501080432	Zinc Total ICAP/MS	ND	100	103	ug/L	101	(70-130)		
MSD_201501080495	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95
MSD2_201501080432	Zinc Total ICAP/MS	ND	100	102	ug/L	100	(70-130)	20	0.98

QC Ref# 813458 - Free Chlorine Residual (H3=past HT not compliant) by SM
4500CL-G/HACH

Analysis Date: 01/08/2015

LCS1	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)	20	1.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.100	mg/L	100	(50-150)		

QC Ref# 813462 - Total Chlorine Residual (H3=past HT not compliant) by SM
4500-CL G

Analysis Date: 01/08/2015

LCS1	Total Chlorine Residual		1.0	0.970	mg/L	97	(85-115)		
LCS2	Total Chlorine Residual		1.0	0.960	mg/L	96	(85-115)	20	1.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.100	mg/L	100	(50-150)		

QC Ref# 813793 - ICP Metals by EPA 200.7

Analysis Date: 01/12/2015

LCS1	Calcium Total ICAP		50	51.4	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	50.6	mg/L	101	(85-115)	20	1.6
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.02	mg/L	102	(50-150)		
MS_201501070718	Calcium Total ICAP	42	50	94.9	mg/L	106	(70-130)		
MS2_201501070720	Calcium Total ICAP	45	50	93.8	mg/L	98	(70-130)		
MSD_201501070718	Calcium Total ICAP	42	50	96.2	mg/L	108	(70-130)	20	1.4
MSD2_201501070720	Calcium Total ICAP	45	50	96.3	mg/L	103	(70-130)	20	2.6
LCS1	Magnesium Total ICAP		20	20.7	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		20	20.3	mg/L	102	(85-115)	20	2.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.105	mg/L	105	(50-150)		
MS_201501070718	Magnesium Total ICAP	8.1	20	29.3	mg/L	106	(70-130)		
MS2_201501070720	Magnesium Total ICAP	9.3	20	30.2	mg/L	104	(70-130)		
MSD_201501070718	Magnesium Total ICAP	8.1	20	29.6	mg/L	107	(70-130)	20	1.0
MSD2_201501070720	Magnesium Total ICAP	9.3	20	30.4	mg/L	105	(70-130)	20	0.66
LCS1	Sodium Total ICAP		50	51.0	mg/L	102	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Sodium Total ICAP		50	49.8	mg/L	100	(85-115)	20	2.6
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		
MS_201501070718	Sodium Total ICAP	77	50	129	mg/L	103	(70-130)		
MS2_201501070720	Sodium Total ICAP	67	50	116	mg/L	99	(70-130)		
MSD_201501070718	Sodium Total ICAP	77	50	131	mg/L	108	(70-130)	20	1.5
MSD2_201501070720	Sodium Total ICAP	67	50	118	mg/L	102	(70-130)	20	1.7

QC Ref# 813794 - ICP Metals by EPA 200.7

Analysis Date: 01/12/2015

LCS1	Calcium Total ICAP		50	49.8	mg/L	100	(85-115)		
LCS2	Calcium Total ICAP		50	50.0	mg/L	100	(85-115)	20	0.60
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.921	mg/L	92	(50-150)		
MS_201501080676	Calcium Total ICAP	ND	50	48.7	mg/L	97	(70-130)		
MS2_201501090016	Calcium Total ICAP	ND	50	48.0	mg/L	96	(70-130)		
MSD_201501080676	Calcium Total ICAP	ND	50	47.6	mg/L	95	(70-130)	20	2.3
MSD2_201501090016	Calcium Total ICAP	ND	50	48.4	mg/L	97	(70-130)	20	0.62
LCS1	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)		
LCS2	Magnesium Total ICAP		20	20.5	mg/L	103	(85-115)	20	0.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0926	mg/L	93	(50-150)		
MS_201501080676	Magnesium Total ICAP	ND	20	20.3	mg/L	101	(70-130)		
MS2_201501090016	Magnesium Total ICAP	ND	20	19.9	mg/L	99	(70-130)		
MSD_201501080676	Magnesium Total ICAP	ND	20	19.9	mg/L	99	(70-130)	20	2.0
MSD2_201501090016	Magnesium Total ICAP	ND	20	20.1	mg/L	101	(70-130)	20	1.0
LCS1	Sodium Total ICAP		50	50.3	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	50.6	mg/L	101	(85-115)	20	0.60
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.999	mg/L	100	(50-150)		
MS_201501080676	Sodium Total ICAP	ND	50	50.3	mg/L	100	(70-130)		
MS2_201501090016	Sodium Total ICAP	1.8	50	50.4	mg/L	97	(70-130)		
MSD_201501080676	Sodium Total ICAP	ND	50	49.3	mg/L	98	(70-130)	20	2.0
MSD2_201501090016	Sodium Total ICAP	1.8	50	51.4	mg/L	99	(70-130)	20	2.0

QC Ref# 813971 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Beryllium Total ICAP/MS		5.0	5.14	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.07	ug/L	101	(85-115)	20	1.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.983	ug/L	98	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0

QC Ref# 813982 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Antimony Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.28	ug/L	128	(50-150)		
MS_201501070720	Antimony Total ICAP/MS	ND	50	48.1	ug/L	94	(70-130)		
MS2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)		
MSD_201501070720	Antimony Total ICAP/MS	ND	50	51.0	ug/L	100	(70-130)	20	5.8
MSD2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.884	ug/L	88	(50-150)		
MS_201501070720	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	99	(70-130)		
MS2_201501080159	Arsenic Total ICAP/MS	4.2	20	24.0	ug/L	99	(70-130)		
MSD_201501070720	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	104	(70-130)	20	5.2
MSD2_201501080159	Arsenic Total ICAP/MS	4.2	20	23.9	ug/L	98	(70-130)	20	0.42
LCS1	Barium Total ICAP/MS		100	94.5	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	92.8	ug/L	93	(85-115)	20	1.8
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.93	ug/L	96	(50-150)		
MS_201501070720	Barium Total ICAP/MS	30	100	121	ug/L	91	(70-130)		
MS2_201501080159	Barium Total ICAP/MS	170	100	263	ug/L	96	(70-130)		
MSD_201501070720	Barium Total ICAP/MS	30	100	126	ug/L	96	(70-130)	20	4.0
MSD2_201501080159	Barium Total ICAP/MS	170	100	264	ug/L	98	(70-130)	20	0.38
LCS1	Beryllium Total ICAP/MS		5.0	5.09	ug/L	102	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.24	ug/L	105	(85-115)	20	2.9
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	107	(50-150)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201501070720	Cadmium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)		
MS2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MSD_201501070720	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)	20	4.5
MSD2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.0
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201501070720	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501070720	Chromium Total ICAP/MS	ND	100	107	ug/L	106	(70-130)	20	4.8
MSD2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	99.3	ug/L	99	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.70
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201501070720	Cobalt Total ICAP/MS	ND	100	98.9	ug/L	99	(70-130)		
MS2_201501080159	Cobalt Total ICAP/MS	ND	100	97.0	ug/L	97	(70-130)		
MSD_201501070720	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	2.1
MSD2_201501080159	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)	20	0.31
LCS1	Copper Total ICAP/MS		100	97.5	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	1.3
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.93	ug/L	97	(50-150)		
MS_201501070720	Copper Total ICAP/MS	34	100	126	ug/L	91	(70-130)		
MS2_201501080159	Copper Total ICAP/MS	2	100	90.6	ug/L	89	(70-130)		
MSD_201501070720	Copper Total ICAP/MS	34	100	128	ug/L	93	(70-130)	20	1.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501080159	Copper Total ICAP/MS	2	100	90.7	ug/L	89	(70-130)	20	0.11
LCS1	Lead Total ICAP/MS		20	20.1	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.99
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.521	ug/L	104	(50-150)		
MS_201501070720	Lead Total ICAP/MS	1.8	20	19.6	ug/L	89	(70-130)		
MS2_201501080159	Lead Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Lead Total ICAP/MS	1.8	20	20.7	ug/L	95	(70-130)	20	5.5
MSD2_201501080159	Lead Total ICAP/MS	ND	20	22.0	ug/L	108	(70-130)	20	0.46
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201501070720	Molybdenum Total ICAP/MS	7.4	100	120	ug/L	113	(70-130)		
MS2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	112	(70-130)		
MSD_201501070720	Molybdenum Total ICAP/MS	7.4	100	124	ug/L	117	(70-130)	20	3.3
MSD2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	113	(70-130)	20	0.86
LCS1	Nickel Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.7	ug/L	101	(85-115)	20	0.59
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.96	ug/L	99	(50-150)		
MS_201501070720	Nickel Total ICAP/MS	ND	50	50.7	ug/L	95	(70-130)		
MS2_201501080159	Nickel Total ICAP/MS	ND	50	48.4	ug/L	94	(70-130)		
MSD_201501070720	Nickel Total ICAP/MS	ND	50	52.7	ug/L	99	(70-130)	20	3.9
MSD2_201501080159	Nickel Total ICAP/MS	ND	50	48.0	ug/L	94	(70-130)	20	0.83
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	4.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.05	ug/L	101	(50-150)		
MS_201501070720	Selenium Total ICAP/MS	ND	20	19.9	ug/L	96	(70-130)		
MS2_201501080159	Selenium Total ICAP/MS	ND	20	19.4	ug/L	93	(70-130)		
MSD_201501070720	Selenium Total ICAP/MS	ND	20	20.4	ug/L	98	(70-130)	20	2.5
MSD2_201501080159	Selenium Total ICAP/MS	ND	20	20.2	ug/L	98	(70-130)	20	4.0
LCS1	Silver Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	1.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.507	ug/L	101	(50-150)		
MS_201501070720	Silver Total ICAP/MS	ND	50	44.4	ug/L	88	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501080159	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)		
MSD_201501070720	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)	20	4.0
MSD2_201501080159	Silver Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)	20	0.22
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.9	ug/L	99	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501070720	Thallium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MS2_201501080159	Thallium Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	5.4
MSD2_201501080159	Thallium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)	20	0.46
LCS1	Vanadium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.97	ug/L	99	(50-150)		
MS_201501070720	Vanadium Total ICAP/MS	ND	100	105	ug/L	103	(70-130)		
MS2_201501080159	Vanadium Total ICAP/MS	ND	100	103	ug/L	102	(70-130)		
MSD_201501070720	Vanadium Total ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501080159	Vanadium Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.98
LCS1	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	105	(85-115)	20	0.96
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	23.8	ug/L	119	(50-150)		
MS_201501070720	Zinc Total ICAP/MS	130	100	230	ug/L	102	(70-130)		
MS2_201501080159	Zinc Total ICAP/MS	ND	100	105	ug/L	90	(70-130)		
MSD_201501070720	Zinc Total ICAP/MS	130	100	233	ug/L	105	(70-130)	20	1.3
MSD2_201501080159	Zinc Total ICAP/MS	ND	100	106	ug/L	91	(70-130)	20	0.95

QC Ref# 814030 - ICPMS Metals by EPA 200.8

Analysis Date: 01/13/2015

LCS1	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.6	ug/L	97	(85-115)	20	2.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.498	ug/L	100	(50-150)		
MS_201501060462	Silver Total ICAP/MS	ND	50	9.23	ug/L	<u>18</u>	(70-130)		
MS2_201501050313	Silver Total ICAP/MS	ND	50	42.7	ug/L	85	(70-130)		
MSD_201501060462	Silver Total ICAP/MS	ND	50	20.5	ug/L	<u>41</u>	(70-130)	20	<u>76</u>
MSD2_201501050313	Silver Total ICAP/MS	ND	50	40.5	ug/L	81	(70-130)	20	5.3

QC Ref# 814081 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 01/13/2015

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Kjeldahl Nitrogen		4.0	3.89	mg/L	97	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.82	mg/L	96	(90-110)	20	1.8
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.215	mg/L	108	(50-150)		
MS_201412260078	Kjeldahl Nitrogen	0.35	4.0	4.25	mg/L	97	(90-110)		
MS_201501090439	Kjeldahl Nitrogen	0.60	4.0	4.85	mg/L	106	(90-110)		
MSD_201412260078	Kjeldahl Nitrogen	0.35	4.0	4.22	mg/L	97	(90-110)	10	0.71
MSD_201501090439	Kjeldahl Nitrogen	0.60	4.0	4.57	mg/L	99	(90-110)	10	5.9

QC Ref# 814105 - ICPMS Metals by EPA 200.8

Analysis Date: 01/14/2015

LCS1	Antimony dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony dissolved ICAP/MS	ND	50	53.2	ug/L	106	(70-130)		
MS2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony dissolved ICAP/MS	ND	50	55.4	ug/L	110	(70-130)	20	3.9
MSD2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Antimony Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony Total ICAP/MS	ND	50	53.2	ug/L	107	(70-130)		
MS2_201501100030	Antimony Total ICAP/MS	ND	50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony Total ICAP/MS	ND	50	55.4	ug/L	111	(70-130)	20	3.9
MSD2_201501100030	Antimony Total ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Arsenic dissolved ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.0	ug/L	107	(70-130)		
MS2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.8	ug/L	111	(70-130)	20	2.9
MSD2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic Total ICAP/MS	69	20	27.0	ug/L	107	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic Total ICAP/MS	69	20	27.8	ug/L	139	(70-130)	20	2.9
MSD2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0
LCS1	Barium dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium dissolved ICAP/MS	40	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium dissolved ICAP/MS	40	100	151	ug/L	111	(70-130)	20	3.4
MSD2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	109	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium Total ICAP/MS	860	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium Total ICAP/MS	7.5	100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium Total ICAP/MS	860	100	151	ug/L	151	(70-130)	20	3.4
MSD2_201501100030	Barium Total ICAP/MS	7.5	100	116	ug/L	109	(70-130)	20	0.0
LCS1	Beryllium dissolved ICAP/MS		5.0	5.13	ug/L	103	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Beryllium Total ICAP/MS		5.0	5.13	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium Total ICAP/MS	2.0	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium Total ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium Total ICAP/MS	2.0	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium Total ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Cadmium dissolved ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		
MSD_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	2.8
MSD2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		
MSD_201501090433	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	110	(70-130)	20	2.8
MSD2_201501100030	Cadmium Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium dissolved ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium dissolved ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	4.8
MSD2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium Total ICAP/MS	54	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium Total ICAP/MS	54	100	107	ug/L	107	(70-130)	20	4.8
MSD2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Cobalt dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.14	ug/L	107	(50-150)		
MS_201501090433	Cobalt dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt dissolved ICAP/MS	ND	100	112	ug/L	112	(70-130)	20	11
MSD2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	106	ug/L	106	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Cobalt Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.14	ug/L	107	(50-150)		
MS_201501090433	Cobalt Total ICAP/MS	33	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt Total ICAP/MS	ND	100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt Total ICAP/MS	33	100	103	ug/L	103	(70-130)	20	3.0
MSD2_201501100030	Cobalt Total ICAP/MS	ND	100	101	ug/L	100	(70-130)	20	0.0
LCS1	Lead dissolved ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead dissolved ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead dissolved ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead dissolved ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead Total ICAP/MS	42	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead Total ICAP/MS	0.69	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead Total ICAP/MS	42	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead Total ICAP/MS	0.69	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Molybdenum dissolved ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum dissolved ICAP/MS	30	100	133	ug/L	103	(70-130)		
MS2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum dissolved ICAP/MS	30	100	137	ug/L	108	(70-130)	20	3.0
MSD2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum Total ICAP/MS	13	100	133	ug/L	103	(70-130)		
MS2_201501100030	Molybdenum Total ICAP/MS	14	100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum Total ICAP/MS	13	100	137	ug/L	<u>137</u>	(70-130)	20	3.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501100030	Molybdenum Total ICAP/MS	14	100	120	ug/L	106	(70-130)	20	0.0
LCS1	Nickel dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel dissolved ICAP/MS	ND	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel dissolved ICAP/MS	ND	50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel dissolved ICAP/MS	ND	50	49.0	ug/L	97	(70-130)	20	2.9
MSD2_201501100030	Nickel dissolved ICAP/MS	ND	50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel Total ICAP/MS	28	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel Total ICAP/MS	ND	50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel Total ICAP/MS	28	50	49.0	ug/L	98	(70-130)	20	2.9
MSD2_201501100030	Nickel Total ICAP/MS	ND	50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Selenium dissolved ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium dissolved ICAP/MS	ND	20	21.8	ug/L	102	(70-130)		
MS2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium dissolved ICAP/MS	ND	20	22.8	ug/L	107	(70-130)	20	4.5
MSD2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Selenium Total ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)		
MS2_201501100030	Selenium Total ICAP/MS	ND	20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	4.5
MSD2_201501100030	Selenium Total ICAP/MS	ND	20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Thallium dissolved ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium dissolved ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501100030	Thallium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium dissolved ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium dissolved ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	2.9
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium Total ICAP/MS	1.9	20	20.2	ug/L	101	(70-130)		
MS2_201501100030	Thallium Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium Total ICAP/MS	1.9	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium Total ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	2.9
LCS1	Vanadium Dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Dissolved ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
LCS1	Vanadium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Total ICAP/MS	270	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Total ICAP/MS	270	100	108	ug/L	108	(70-130)	20	2.8
MSD2_201501100030	Vanadium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
LCS1	Zinc dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc dissolved ICAP/MS	ND	100	108	ug/L	104	(70-130)		
MS2_201501100030	Zinc dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Zinc dissolved ICAP/MS	ND	100	112	ug/L	108	(70-130)	20	3.6
MSD2_201501100030	Zinc dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95
LCS1	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Zinc Total ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc Total ICAP/MS	420	100	108	ug/L	108	(70-130)		
MS2_201501100030	Zinc Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Zinc Total ICAP/MS	420	100	112	ug/L	112	(70-130)	20	3.6
MSD2_201501100030	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95

QC Ref# 814106 - ICPMS Metals by EPA 200.8

Analysis Date: 01/14/2015

LCS1	Antimony dissolved ICAP/MS		50	55.2	ug/L	110	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	54.2	ug/L	108	(85-115)	20	1.8
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090441	Antimony dissolved ICAP/MS	ND	50	49.0	ug/L	97	(70-130)		
MS2_201501090439	Antimony dissolved ICAP/MS	ND	50	49.8	ug/L	98	(70-130)		
MSD_201501090441	Antimony dissolved ICAP/MS	ND	50	47.9	ug/L	95	(70-130)	20	2.3
MSD2_201501090439	Antimony dissolved ICAP/MS	ND	50	50.1	ug/L	99	(70-130)	20	0.60
LCS1	Antimony Total ICAP/MS		50	55.2	ug/L	110	(85-115)		
LCS2	Antimony Total ICAP/MS		50	54.2	ug/L	108	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090441	Antimony Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)		
MS2_201501090439	Antimony Total ICAP/MS	1.6	50	49.8	ug/L	100	(70-130)		
MSD_201501090441	Antimony Total ICAP/MS	ND	50	47.9	ug/L	96	(70-130)	20	2.3
MSD2_201501090439	Antimony Total ICAP/MS	1.6	50	50.1	ug/L	100	(70-130)	20	0.60
LCS1	Arsenic dissolved ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	22.2	ug/L	111	(85-115)	20	1.8
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090441	Arsenic dissolved ICAP/MS	1.7	20	22.4	ug/L	103	(70-130)		
MS2_201501090439	Arsenic dissolved ICAP/MS	12	20	33.6	ug/L	108	(70-130)		
MSD_201501090441	Arsenic dissolved ICAP/MS	1.7	20	22.0	ug/L	102	(70-130)	20	1.8
MSD2_201501090439	Arsenic dissolved ICAP/MS	12	20	33.9	ug/L	109	(70-130)	20	0.89
LCS1	Arsenic Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	22.2	ug/L	111	(85-115)	20	1.8
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090441	Arsenic Total ICAP/MS	50	20	22.4	ug/L	112	(70-130)		
MS2_201501090439	Arsenic Total ICAP/MS	28	20	33.6	ug/L	168	(70-130)		
MSD_201501090441	Arsenic Total ICAP/MS	50	20	22.0	ug/L	110	(70-130)	20	1.8
MSD2_201501090439	Arsenic Total ICAP/MS	28	20	33.9	ug/L	169	(70-130)	20	0.89

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Barium dissolved ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	108	ug/L	109	(85-115)	20	0.91
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201501090441	Barium dissolved ICAP/MS	33	100	137	ug/L	104	(70-130)		
MS2_201501090439	Barium dissolved ICAP/MS	3.3	100	106	ug/L	103	(70-130)		
MSD_201501090441	Barium dissolved ICAP/MS	33	100	134	ug/L	101	(70-130)	20	2.2
MSD2_201501090439	Barium dissolved ICAP/MS	3.3	100	107	ug/L	103	(70-130)	20	0.94
LCS1	Barium Total ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Barium Total ICAP/MS		100	108	ug/L	109	(85-115)	20	0.91
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201501090441	Barium Total ICAP/MS	950	100	137	ug/L	<u>137</u>	(70-130)		
MS2_201501090439	Barium Total ICAP/MS	230	100	106	ug/L	106	(70-130)		
MSD_201501090441	Barium Total ICAP/MS	950	100	134	ug/L	<u>134</u>	(70-130)	20	2.2
MSD2_201501090439	Barium Total ICAP/MS	230	100	107	ug/L	107	(70-130)	20	0.94
LCS1	Beryllium dissolved ICAP/MS		5.0	5.68	ug/L	114	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.43	ug/L	109	(85-115)	20	4.5
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501090441	Beryllium dissolved ICAP/MS	ND	5.0	5.28	ug/L	105	(70-130)		
MS2_201501090439	Beryllium dissolved ICAP/MS	ND	5.0	5.52	ug/L	110	(70-130)		
MSD_201501090441	Beryllium dissolved ICAP/MS	ND	5.0	5.45	ug/L	108	(70-130)	20	3.2
MSD2_201501090439	Beryllium dissolved ICAP/MS	ND	5.0	5.56	ug/L	111	(70-130)	20	0.72
LCS1	Beryllium Total ICAP/MS		5.0	5.68	ug/L	114	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.43	ug/L	109	(85-115)	20	4.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.28	ug/L	106	(70-130)		
MS2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.52	ug/L	110	(70-130)		
MSD_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.45	ug/L	109	(70-130)	20	3.2
MSD2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.56	ug/L	111	(70-130)	20	0.72
LCS1	Cadmium dissolved ICAP/MS		20	21.8	ug/L	109	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	21.5	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.563	ug/L	113	(50-150)		
MS_201501090441	Cadmium dissolved ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Cadmium dissolved ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090441	Cadmium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201501090439	Cadmium dissolved ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	3.5
LCS1	Cadmium Total ICAP/MS		20	21.8	ug/L	109	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.5	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.563	ug/L	113	(50-150)		
MS_201501090441	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201501090441	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201501090439	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	3.5
LCS1	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	0.990	ug/L	99	(50-150)		
MS_201501090441	Chromium dissolved ICAP/MS	ND	100	104	ug/L	103	(70-130)		
MS2_201501090439	Chromium dissolved ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201501090441	Chromium dissolved ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	2.9
MSD2_201501090439	Chromium dissolved ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.990	ug/L	99	(50-150)		
MS_201501090441	Chromium Total ICAP/MS	70	100	104	ug/L	103	(70-130)		
MS2_201501090439	Chromium Total ICAP/MS	18	100	104	ug/L	104	(70-130)		
MSD_201501090441	Chromium Total ICAP/MS	70	100	101	ug/L	101	(70-130)	20	2.9
MSD2_201501090439	Chromium Total ICAP/MS	18	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Cobalt dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201501090441	Cobalt dissolved ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201501090439	Cobalt dissolved ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501090441	Cobalt dissolved ICAP/MS	ND	100	99.5	ug/L	100	(70-130)	20	1.5
MSD2_201501090439	Cobalt dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.0
LCS1	Cobalt Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090441	Cobalt Total ICAP/MS	34	100	101	ug/L	101	(70-130)		
MS2_201501090439	Cobalt Total ICAP/MS	7.5	100	102	ug/L	102	(70-130)		
MSD_201501090441	Cobalt Total ICAP/MS	34	100	99.5	ug/L	100	(70-130)	20	1.5
MSD2_201501090439	Cobalt Total ICAP/MS	7.5	100	100	ug/L	100	(70-130)	20	2.0
LCS1	Lead dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	99	(70-130)		
MS2_201501090439	Lead dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501090441	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	2.5
MSD2_201501090439	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	0.51
LCS1	Lead Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead Total ICAP/MS	34	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Lead Total ICAP/MS	13	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Lead Total ICAP/MS	34	20	19.6	ug/L	98	(70-130)	20	2.5
MSD2_201501090439	Lead Total ICAP/MS	13	20	19.6	ug/L	98	(70-130)	20	0.51
LCS1	Molybdenum dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.7
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501090441	Molybdenum dissolved ICAP/MS	24	100	130	ug/L	106	(70-130)		
MS2_201501090439	Molybdenum dissolved ICAP/MS	7.8	100	114	ug/L	106	(70-130)		
MSD_201501090441	Molybdenum dissolved ICAP/MS	24	100	127	ug/L	102	(70-130)	20	2.3
MSD2_201501090439	Molybdenum dissolved ICAP/MS	7.8	100	113	ug/L	105	(70-130)	20	0.88
LCS1	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.7
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501090441	Molybdenum Total ICAP/MS	13	100	130	ug/L	130	(70-130)		
MS2_201501090439	Molybdenum Total ICAP/MS	9.2	100	114	ug/L	114	(70-130)		
MSD_201501090441	Molybdenum Total ICAP/MS	13	100	127	ug/L	127	(70-130)	20	2.3
MSD2_201501090439	Molybdenum Total ICAP/MS	9.2	100	113	ug/L	113	(70-130)	20	0.88
LCS1	Nickel dissolved ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	47.9	ug/L	96	(85-115)	20	3.7

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.58	ug/L	92	(50-150)		
MS_201501090441	Nickel dissolved ICAP/MS	ND	50	50.1	ug/L	100	(70-130)		
MS2_201501090439	Nickel dissolved ICAP/MS	ND	50	49.6	ug/L	99	(70-130)		
MSD_201501090441	Nickel dissolved ICAP/MS	ND	50	48.7	ug/L	97	(70-130)	20	2.8
MSD2_201501090439	Nickel dissolved ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	0.81
LCS1	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	47.9	ug/L	96	(85-115)	20	3.7
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.58	ug/L	92	(50-150)		
MS_201501090441	Nickel Total ICAP/MS	20	50	50.1	ug/L	100	(70-130)		
MS2_201501090439	Nickel Total ICAP/MS	12	50	49.6	ug/L	99	(70-130)		
MSD_201501090441	Nickel Total ICAP/MS	20	50	48.7	ug/L	97	(70-130)	20	2.8
MSD2_201501090439	Nickel Total ICAP/MS	12	50	49.2	ug/L	98	(70-130)	20	0.81
LCS1	Selenium dissolved ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.6
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	7.00	ug/L	140	(50-150)		
MS_201501090441	Selenium dissolved ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201501090439	Selenium dissolved ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501090441	Selenium dissolved ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	4.9
MSD2_201501090439	Selenium dissolved ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.9
LCS1	Selenium Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.6
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	7.00	ug/L	140	(50-150)		
MS_201501090441	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201501090439	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501090441	Selenium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	4.9
MSD2_201501090439	Selenium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.9
LCS1	Thallium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	0.999	ug/L	100	(50-150)		
MS_201501090441	Thallium dissolved ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501090439	Thallium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501090441	Thallium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD2_201501090439	Thallium dissolved ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	1.0

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.999	ug/L	100	(50-150)		
MS_201501090441	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501090439	Thallium Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD2_201501090439	Thallium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	1.0
LCS1	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	1.9
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201501090441	Vanadium Dissolved ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MS2_201501090439	Vanadium Dissolved ICAP/MS	ND	100	109	ug/L	107	(70-130)		
MSD_201501090441	Vanadium Dissolved ICAP/MS	ND	100	103	ug/L	102	(70-130)	20	2.9
MSD2_201501090439	Vanadium Dissolved ICAP/MS	ND	100	105	ug/L	103	(70-130)	20	3.7
LCS1	Vanadium Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	1.9
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201501090441	Vanadium Total ICAP/MS	140	100	106	ug/L	106	(70-130)		
MS2_201501090439	Vanadium Total ICAP/MS	35	100	109	ug/L	109	(70-130)		
MSD_201501090441	Vanadium Total ICAP/MS	140	100	103	ug/L	103	(70-130)	20	2.9
MSD2_201501090439	Vanadium Total ICAP/MS	35	100	105	ug/L	105	(70-130)	20	3.7
LCS1	Zinc dissolved ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201501090441	Zinc dissolved ICAP/MS	ND	100	104	ug/L	102	(70-130)		
MS2_201501090439	Zinc dissolved ICAP/MS	ND	100	109	ug/L	104	(70-130)		
MSD_201501090441	Zinc dissolved ICAP/MS	ND	100	110	ug/L	108	(70-130)	20	4.7
MSD2_201501090439	Zinc dissolved ICAP/MS	ND	100	107	ug/L	102	(70-130)	20	1.9
LCS1	Zinc Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201501090441	Zinc Total ICAP/MS	400	100	104	ug/L	105	(70-130)		
MS2_201501090439	Zinc Total ICAP/MS	100	100	109	ug/L	109	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090441	Zinc Total ICAP/MS	400	100	110	ug/L	110	(70-130)	20	4.7
MSD2_201501090439	Zinc Total ICAP/MS	100	100	107	ug/L	107	(70-130)	20	1.9

QC Ref# 814145 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/14/2015

LCS1	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	Bromodichloromethane		5.0	4.60	ug/L	92	(70-130)		
LCS2	Bromodichloromethane		5.0	4.87	ug/L	97	(70-130)	20	5.7
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	5.75	ug/L	115	(70-130)		
LCS2	Bromoform		5.0	5.51	ug/L	110	(70-130)	20	4.3
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	5.26	ug/L	105	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.67	ug/L	93	(70-130)	20	12
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.93	ug/L	99	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.73	ug/L	95	(70-130)	20	4.1
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			93.6	%	94	(70-130)		
LCS2	Toluene-d8 (S)			98.4	%	98	(70-130)		
MBLK	Toluene-d8 (S)			91.6	%	92	(70-130)		

QC Ref# 814150 - Volatile Organics by EPA 624 by EPA 624

Analysis Date: 01/13/2015

LCS1	1,1,1-Trichloroethane		20	20.8	ug/L	104	(79-121)		
LCS2	1,1,1-Trichloroethane		20	20.8	ug/L	104	(79-121)	20	0.0
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	1,1,1-Trichloroethane	ND	10	10.6	ug/L	107	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	21.5	ug/L	108	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	21.7	ug/L	109	(77-126)	20	0.93
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(79-130)		
LCS1	1,1,2-Trichloroethane		20	20.5	ug/L	102	(79-116)		
LCS2	1,1,2-Trichloroethane		20	20.5	ug/L	102	(79-116)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	1,1,2-Trichloroethane	ND	10	9.59	ug/L	96	(76-129)		
LCS1	1,1-Dichloroethane		20	20.3	ug/L	102	(77-129)		
LCS2	1,1-Dichloroethane		20	20.1	ug/L	101	(77-129)	20	0.99
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,1-Dichloroethane	ND	10	9.61	ug/L	96	(70-146)		
LCS1	1,1-Dichloroethylene		20	20.2	ug/L	101	(77-139)		
LCS2	1,1-Dichloroethylene		20	19.0	ug/L	95	(77-139)	20	6.1
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	1,1-Dichloroethylene	ND	10	9.77	ug/L	98	(75-134)		
LCS1	1,2-Dichloroethane		20	21.9	ug/L	110	(81-122)		
LCS2	1,2-Dichloroethane		20	21.0	ug/L	105	(81-122)	20	4.2
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201412310066	1,2-Dichloroethane	ND	10	9.92	ug/L	99	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			97.0	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201412310066	1,2-Dichloroethane-d4 (S)			99.6	%	100	(70-130)		
LCS1	1,2-Dichloropropane		20	19.8	ug/L	99	(77-118)		
LCS2	1,2-Dichloropropane		20	19.4	ug/L	97	(77-118)	20	2.0
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	1,2-Dichloropropane	ND	10	9.40	ug/L	94	(73-132)		
LCS1	2-Butanone (MEK)		200	213	ug/L	106	(65-122)		
LCS2	2-Butanone (MEK)		200	204	ug/L	102	(65-122)	20	4.3
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.80	ug/L	116	(50-150)		
MS_201412310066	2-Butanone (MEK)	ND	100	104	ug/L	104	(59-129)		
LCS1	2-Hexanone		200	220	ug/L	110	(72-128)		
LCS2	2-Hexanone		200	213	ug/L	107	(72-128)	20	3.7
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.99	ug/L	100	(50-150)		
MS_201412310066	2-Hexanone	ND	100	103	ug/L	103	(71-134)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	4-Bromofluorobenzene (S)			93.4	%	93	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MS_201412310066	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	220	ug/L	110	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	210	ug/L	105	(76-130)	20	4.7
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.86	ug/L	97	(50-150)		
MS_201412310066	4-Methyl-2-Pentanone (MIBK)	ND	100	104	ug/L	104	(75-136)		
LCS1	Acetone		200	211	ug/L	105	(47-117)		
LCS2	Acetone		200	207	ug/L	103	(47-117)	20	1.9
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.89	ug/L	118	(50-150)		
MS_201412310066	Acetone	ND	100	103	ug/L	103	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	20.4	ug/L	102	(60-156)		
LCS2	Benzene		20	20.3	ug/L	102	(60-156)	20	0.49
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Benzene	ND	10	9.72	ug/L	97	(76-133)		
LCS1	Bromodichloromethane		20	21.7	ug/L	109	(77-113)		
LCS2	Bromodichloromethane		20	21.7	ug/L	109	(77-113)	20	0.0
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412310066	Bromodichloromethane	ND	10	9.74	ug/L	97	(77-130)		
LCS1	Bromoform		20	20.8	ug/L	104	(54-134)		
LCS2	Bromoform		20	22.5	ug/L	113	(54-134)	20	7.8
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	Bromoform	ND	10	11.9	ug/L	119	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	19.4	ug/L	97	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	20.3	ug/L	101	(67-144)	20	4.5
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.630	ug/L	126	(50-150)		
MS_201412310066	Bromomethane (Methyl Bromide)	ND	10	10.1	ug/L	101	(55-147)		
LCS1	Carbon disulfide		20	17.4	ug/L	87	(63-131)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Carbon disulfide		20	17.2	ug/L	86	(63-131)	20	1.2
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.560	ug/L	112	(50-150)		
MS_201412310066	Carbon disulfide	ND	10	9.62	ug/L	96	(65-155)		
LCS1	Carbon Tetrachloride		20	21.8	ug/L	109	(73-127)		
LCS2	Carbon Tetrachloride		20	22.0	ug/L	110	(73-127)	20	0.91
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	Carbon Tetrachloride	ND	10	10.8	ug/L	109	(71-151)		
LCS1	Chlorobenzene		20	19.3	ug/L	97	(57-166)		
LCS2	Chlorobenzene		20	19.7	ug/L	98	(57-166)	20	2.0
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Chlorobenzene	ND	10	9.17	ug/L	92	(77-132)		
LCS1	Chlorodibromomethane		20	23.1	ug/L	116	(77-113)		
LCS2	Chlorodibromomethane		20	23.3	ug/L	116	(77-113)	20	0.86
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	Chlorodibromomethane	ND	10	10.2	ug/L	102	(68-136)		
LCS1	Chloroethane		20	19.9	ug/L	99	(70-133)		
LCS2	Chloroethane		20	21.3	ug/L	107	(70-133)	20	6.8
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.640	ug/L	128	(50-150)		
MS_201412310066	Chloroethane	ND	10	10.3	ug/L	103	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	20.4	ug/L	102	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	20.2	ug/L	101	(78-117)	20	0.99
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Chloroform (Trichloromethane)	ND	10	10.0	ug/L	100	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	19.6	ug/L	98	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	21.5	ug/L	107	(78-134)	20	9.3
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	Chloromethane(Methyl Chloride)	ND	10	9.98	ug/L	99	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	20.9	ug/L	105	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	20.2	ug/L	101	(80-114)	20	3.4
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.480	ug/L	96	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412310066	cis-1,2-Dichloroethylene	ND	10	10.2	ug/L	102	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	22.2	ug/L	111	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	22.4	ug/L	112	(68-123)	20	0.90
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.370	ug/L	74	(50-150)		
MS_201412310066	cis-1,3-Dichloropropene	ND	10	10.2	ug/L	102	(65-120)		
LCS1	Dichlorodifluoromethane		20	26.3	ug/L	132	(46-165)		
LCS2	Dichlorodifluoromethane		20	28.8	ug/L	144	(46-165)	20	9.1
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.410	ug/L	82	(50-150)		
MS_201412310066	Dichlorodifluoromethane	ND	10	11.8	ug/L	118	(30-169)		
LCS1	Dichloromethane		20	20.4	ug/L	102	(77-121)		
LCS2	Dichloromethane		20	19.7	ug/L	99	(77-121)	20	3.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201412310066	Dichloromethane	ND	10	9.50	ug/L	95	(75-132)		
LCS1	Ethyl benzene		20	20.5	ug/L	102	(79-122)		
LCS2	Ethyl benzene		20	20.4	ug/L	102	(79-122)	20	0.49
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	Ethyl benzene	ND	10	9.62	ug/L	96	(68-146)		
LCS1	m,p-Xylenes		40	42.1	ug/L	105	(82-123)		
LCS2	m,p-Xylenes		40	41.3	ug/L	103	(82-123)	20	1.9
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.840	ug/L	84	(50-150)		
MS_201412310066	m,p-Xylenes	ND	20	19.4	ug/L	97	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	18.9	ug/L	94	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.5	ug/L	102	(76-124)	20	8.1
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	m-Dichlorobenzene (1,3-DCB)	ND	10	9.81	ug/L	98	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	19.6	ug/L	98	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	19.3	ug/L	96	(70-130)	20	1.5
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	Methyl Tert-butyl ether (MTBE)	ND	10	9.62	ug/L	96	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	19.2	ug/L	96	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.5	ug/L	102	(79-118)	20	6.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201412310066	o-Dichlorobenzene (1,2-DCB)	ND	10	9.62	ug/L	96	(80-125)		
LCS1	o-Xylene		20	22.4	ug/L	112	(79-120)		
LCS2	o-Xylene		20	21.3	ug/L	107	(79-120)	20	5.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.430	ug/L	86	(50-150)		
MS_201412310066	o-Xylene	ND	10	9.97	ug/L	100	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	18.6	ug/L	93	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	10
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201412310066	p-Dichlorobenzene (1,4-DCB)	ND	10	9.88	ug/L	99	(71-145)		
LCS1	Styrene		20	21.3	ug/L	107	(77-125)		
LCS2	Styrene		20	20.6	ug/L	103	(77-125)	20	3.3
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.630	ug/L	126	(50-150)		
MS_201412310066	Styrene	ND	10	6.23	ug/L	<u>62</u>	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	20.2	ug/L	101	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	21.1	ug/L	105	(79-122)	20	4.4
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	Tetrachloroethylene (PCE)	ND	10	9.93	ug/L	99	(72-146)		
LCS1	Tetrahydrofuran		200	213	ug/L	107	(67-130)		
LCS2	Tetrahydrofuran		200	201	ug/L	101	(67-130)	20	5.8
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	5.21	ug/L	104	(50-150)		
MS_201412310066	Tetrahydrofuran	ND	100	101	ug/L	101	(68-134)		
LCS1	Toluene		20	20.6	ug/L	103	(80-118)		
LCS2	Toluene		20	20.6	ug/L	103	(80-118)	20	0.0
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201412310066	Toluene	ND	10	9.66	ug/L	97	(66-143)		
LCS1	Toluene-d8 (S)			96.8	%	97	(70-130)		
LCS2	Toluene-d8 (S)			98.6	%	99	(70-130)		
MBLK	Toluene-d8 (S)			91.6	%	92	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.0	%	99	(70-130)		
MS_201412310066	Toluene-d8 (S)			98.0	%	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	trans-1,2-Dichloroethylene		20	20.7	ug/L	104	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	20.8	ug/L	104	(82-122)	20	0.48
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
MS_201412310066	trans-1,2-Dichloroethylene	ND	10	10.3	ug/L	103	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	22.8	ug/L	114	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	23.1	ug/L	115	(64-126)	20	1.3
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201412310066	trans-1,3-Dichloropropene	ND	10	9.14	ug/L	91	(61-127)		
LCS1	Trichloroethylene (TCE)		20	21.0	ug/L	105	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.7	ug/L	109	(78-119)	20	3.3
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.440	ug/L	88	(50-150)		
MS_201412310066	Trichloroethylene (TCE)	ND	10	10.0	ug/L	101	(71-139)		
LCS1	Trichlorofluoromethane		20	20.8	ug/L	104	(70-145)		
LCS2	Trichlorofluoromethane		20	21.8	ug/L	109	(70-145)	20	4.7
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412310066	Trichlorofluoromethane	ND	10	11.2	ug/L	112	(63-161)		
LCS1	Vinyl Acetate		100	99.8	ug/L	100	(72-136)		
LCS2	Vinyl Acetate		100	85.5	ug/L	86	(72-136)	20	15
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.38	ug/L	95	(50-150)		
MS_201412310066	Vinyl Acetate	ND	50	39.0	ug/L	78	(55-146)		
LCS1	Vinyl chloride (VC)		20	21.8	ug/L	109	(66-140)		
LCS2	Vinyl chloride (VC)		20	23.6	ug/L	118	(66-140)	20	7.9
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.500	ug/L	100	(50-150)		
MS_201412310066	Vinyl chloride (VC)	ND	10	11.1	ug/L	111	(56-159)		

QC Ref# 814274 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 01/14/2015

LCS1	Ammonia Nitrogen		0.5	0.522	mg/L	104	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.518	mg/L	104	(90-110)	20	0.77
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0495	mg/L	99	(53-118)		
MS_201501080493	Ammonia Nitrogen	0.12	0.5	0.574	mg/L	90	(90-110)		
MS_201501090439	Ammonia Nitrogen	0.072	0.5	0.554	mg/L	96	(90-110)		
MSD_201501080493	Ammonia Nitrogen	0.12	0.5	0.574	mg/L	90	(90-110)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090439	Ammonia Nitrogen	0.072	0.5	0.552	mg/L	96	(90-110)	20	0.36

QC Ref# 814447 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/14/2015

LCS1	1,2-Dichloroethane-d4 (S)			96.6	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
LCS1	4-Bromofluorobenzene (S)			91.6	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
LCS1	Bromodichloromethane		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromodichloromethane		5.0	4.58	ug/L	92	(70-130)	20	0.88
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoform		5.0	3.76	ug/L	75	(70-130)		
LCS2	Bromoform		5.0	3.61	ug/L	72	(70-130)	20	4.1
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.40	ug/L	108	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.57	ug/L	111	(70-130)	20	3.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.32	ug/L	86	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.39	ug/L	88	(70-130)	20	1.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS2	Toluene-d8 (S)			106	%	106	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		

QC Ref# 814454 - Volatile Organics by EPA 624 by EPA 624

Analysis Date: 01/14/2015

LCS1	1,1,1-Trichloroethane		20	21.8	ug/L	109	(79-121)		
LCS2	1,1,1-Trichloroethane		20	19.8	ug/L	99	(79-121)	20	9.6
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,1-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	1,1,1-Trichloroethane	ND	10	10.0	ug/L	100	(75-144)		
MSD_201501150316	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(75-144)	20	3.0
LCS1	1,1,2,2-Tetrachloroethane		20	18.9	ug/L	94	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	18.7	ug/L	94	(77-126)	20	1.1
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.600	ug/L	120	(50-150)		
MS_201501150316	1,1,2,2-Tetrachloroethane	ND	10	9.14	ug/L	91	(79-130)		
MSD_201501150316	1,1,2,2-Tetrachloroethane	ND	10	9.51	ug/L	95	(79-130)	20	4.0
LCS1	1,1,2-Trichloroethane		20	19.8	ug/L	99	(79-116)		
LCS2	1,1,2-Trichloroethane		20	18.3	ug/L	92	(79-116)	20	8.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	1,1,2-Trichloroethane	ND	10	8.74	ug/L	87	(76-129)		
MSD_201501150316	1,1,2-Trichloroethane	ND	10	9.09	ug/L	91	(76-129)	20	3.9
LCS1	1,1-Dichloroethane		20	19.9	ug/L	100	(77-129)		
LCS2	1,1-Dichloroethane		20	18.4	ug/L	92	(77-129)	20	7.8
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201501150316	1,1-Dichloroethane	ND	10	9.59	ug/L	96	(70-146)		
MSD_201501150316	1,1-Dichloroethane	ND	10	9.89	ug/L	99	(70-146)	20	3.1
LCS1	1,1-Dichloroethylene		20	19.0	ug/L	95	(77-139)		
LCS2	1,1-Dichloroethylene		20	17.6	ug/L	88	(77-139)	20	8.2
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201501150316	1,1-Dichloroethylene	ND	10	9.83	ug/L	98	(75-134)		
MSD_201501150316	1,1-Dichloroethylene	ND	10	10.1	ug/L	101	(75-134)	20	2.7
LCS1	1,2-Dichloroethane		20	19.6	ug/L	98	(81-122)		
LCS2	1,2-Dichloroethane		20	17.7	ug/L	88	(81-122)	20	10
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501150316	1,2-Dichloroethane	ND	10	8.98	ug/L	90	(75-135)		
MSD_201501150316	1,2-Dichloroethane	ND	10	9.53	ug/L	95	(75-135)	20	5.9
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			93.8	%	94	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501150316	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201501150316	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
LCS1	1,2-Dichloropropane		20	20.4	ug/L	102	(77-118)		
LCS2	1,2-Dichloropropane		20	18.5	ug/L	92	(77-118)	20	9.8
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
MS_201501150316	1,2-Dichloropropane	ND	10	9.09	ug/L	91	(73-132)		
MSD_201501150316	1,2-Dichloropropane	ND	10	9.36	ug/L	94	(73-132)	20	2.9
LCS1	2-Butanone (MEK)		200	209	ug/L	104	(65-122)		
LCS2	2-Butanone (MEK)		200	188	ug/L	94	(65-122)	20	11
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.10	ug/L	102	(50-150)		
MS_201501150316	2-Butanone (MEK)	ND	100	87.4	ug/L	87	(59-129)		
MSD_201501150316	2-Butanone (MEK)	ND	100	95.6	ug/L	95	(59-129)	20	9.0
LCS1	2-Hexanone		200	198	ug/L	99	(72-128)		
LCS2	2-Hexanone		200	185	ug/L	93	(72-128)	20	6.8
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.14	ug/L	83	(50-150)		
MS_201501150316	2-Hexanone	ND	100	106	ug/L	106	(71-134)		
MSD_201501150316	2-Hexanone	ND	100	113	ug/L	113	(71-134)	20	6.4
LCS1	4-Bromofluorobenzene (S)			97.0	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			92.2	%	92	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRL_LW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MS_201501150316	4-Bromofluorobenzene (S)			89.2	%	89	(70-130)		
MSD_201501150316	4-Bromofluorobenzene (S)			93.8	%	94	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	250	ug/L	125	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	228	ug/L	114	(76-130)	20	8.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.00	ug/L	80	(50-150)		
MS_201501150316	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	115	(75-136)		
MSD_201501150316	4-Methyl-2-Pentanone (MIBK)	ND	100	120	ug/L	120	(75-136)	20	4.3
LCS1	Acetone		200	207	ug/L	103	(47-117)		
LCS2	Acetone		200	192	ug/L	96	(47-117)	20	7.5
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.89	ug/L	118	(50-150)		
MS_201501150316	Acetone	ND	100	101	ug/L	101	(37-119)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501150316	Acetone	ND	100	104	ug/L	104	(37-119)	20	2.9
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	19.9	ug/L	100	(60-156)		
LCS2	Benzene		20	18.3	ug/L	92	(60-156)	20	8.4
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Benzene	ND	10	9.42	ug/L	94	(76-133)		
MSD_201501150316	Benzene	ND	10	9.94	ug/L	99	(76-133)	20	5.4
LCS1	Bromodichloromethane		20	23.0	ug/L	115	(77-113)		
LCS2	Bromodichloromethane		20	21.1	ug/L	106	(77-113)	20	9.1
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201501150316	Bromodichloromethane	ND	10	9.66	ug/L	97	(77-130)		
MSD_201501150316	Bromodichloromethane	ND	10	10.5	ug/L	105	(77-130)	20	8.3
LCS1	Bromoform		20	23.0	ug/L	115	(54-134)		
LCS2	Bromoform		20	20.7	ug/L	104	(54-134)	20	11
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	Bromoform	ND	10	9.13	ug/L	91	(51-140)		
MSD_201501150316	Bromoform	ND	10	10.0	ug/L	101	(51-140)	20	10
LCS1	Bromomethane (Methyl Bromide)		20	21.4	ug/L	107	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	19.7	ug/L	98	(67-144)	20	8.3
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
MS_201501150316	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(55-147)		
MSD_201501150316	Bromomethane (Methyl Bromide)	ND	10	12.9	ug/L	129	(55-147)	20	7.2
LCS1	Carbon disulfide		20	19.2	ug/L	96	(63-131)		
LCS2	Carbon disulfide		20	18.3	ug/L	92	(63-131)	20	4.8
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	Carbon disulfide	ND	10	10.1	ug/L	100	(65-155)		
MSD_201501150316	Carbon disulfide	ND	10	10.7	ug/L	105	(65-155)	20	5.8
LCS1	Carbon Tetrachloride		20	19.8	ug/L	99	(73-127)		
LCS2	Carbon Tetrachloride		20	18.4	ug/L	92	(73-127)	20	7.3
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
MS_201501150316	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(71-151)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501150316	Carbon Tetrachloride	ND	10	11.4	ug/L	114	(71-151)	20	3.6
LCS1	Chlorobenzene		20	22.2	ug/L	111	(57-166)		
LCS2	Chlorobenzene		20	20.0	ug/L	100	(57-166)	20	10
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Chlorobenzene	ND	10	9.47	ug/L	95	(77-132)		
MSD_201501150316	Chlorobenzene	ND	10	9.92	ug/L	99	(77-132)	20	4.6
LCS1	Chlorodibromomethane		20	20.2	ug/L	101	(77-113)		
LCS2	Chlorodibromomethane		20	19.0	ug/L	95	(77-113)	20	6.1
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Chlorodibromomethane	ND	10	10.3	ug/L	103	(68-136)		
MSD_201501150316	Chlorodibromomethane	ND	10	10.5	ug/L	105	(68-136)	20	1.9
LCS1	Chloroethane		20	20.9	ug/L	105	(70-133)		
LCS2	Chloroethane		20	18.8	ug/L	94	(70-133)	20	11
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201501150316	Chloroethane	ND	10	11.6	ug/L	116	(45-180)		
MSD_201501150316	Chloroethane	ND	10	12.2	ug/L	122	(45-180)	20	5.0
LCS1	Chloroform (Trichloromethane)		20	19.0	ug/L	95	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	17.4	ug/L	87	(78-117)	20	8.8
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Chloroform (Trichloromethane)	ND	10	8.56	ug/L	86	(76-133)		
MSD_201501150316	Chloroform (Trichloromethane)	ND	10	9.11	ug/L	91	(76-133)	20	6.2
LCS1	Chloromethane(Methyl Chloride)		20	21.0	ug/L	105	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	19.3	ug/L	97	(78-134)	20	8.4
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Chloromethane(Methyl Chloride)	ND	10	10.4	ug/L	104	(58-143)		
MSD_201501150316	Chloromethane(Methyl Chloride)	ND	10	11.1	ug/L	111	(58-140)	20	6.5
LCS1	cis-1,2-Dichloroethylene		20	20.3	ug/L	102	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	18.5	ug/L	92	(80-114)	20	9.3
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501150316	cis-1,2-Dichloroethylene	ND	10	9.78	ug/L	98	(78-133)		
MSD_201501150316	cis-1,2-Dichloroethylene	ND	10	10.2	ug/L	102	(78-133)	20	4.2
LCS1	cis-1,3-Dichloropropene		20	22.0	ug/L	110	(68-123)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	cis-1,3-Dichloropropene		20	20.8	ug/L	104	(68-123)	20	5.6
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	cis-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(65-120)		
MSD_201501150316	cis-1,3-Dichloropropene	ND	10	12.3	ug/L	<u>123</u>	(65-120)	20	10
LCS1	Dichlorodifluoromethane		20	19.1	ug/L	96	(46-165)		
LCS2	Dichlorodifluoromethane		20	18.4	ug/L	92	(46-165)	20	3.7
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(30-169)		
MSD_201501150316	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(30-169)	20	1.6
LCS1	Dichloromethane		20	20.8	ug/L	104	(77-121)		
LCS2	Dichloromethane		20	19.4	ug/L	97	(77-121)	20	7.0
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Dichloromethane	ND	10	9.99	ug/L	100	(75-132)		
MSD_201501150316	Dichloromethane	ND	10	10.1	ug/L	101	(75-132)	20	1.1
LCS1	Ethyl benzene		20	21.0	ug/L	105	(79-122)		
LCS2	Ethyl benzene		20	19.1	ug/L	96	(79-122)	20	9.5
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.640	ug/L	128	(50-150)		
MS_201501150316	Ethyl benzene	ND	10	9.52	ug/L	92	(68-146)		
MSD_201501150316	Ethyl benzene	ND	10	10.2	ug/L	99	(68-146)	20	6.9
LCS1	m,p-Xylenes		40	40.2	ug/L	101	(82-123)		
LCS2	m,p-Xylenes		40	37.8	ug/L	95	(82-123)	20	5.9
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.880	ug/L	88	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.470	ug/L	94	(50-150)		
MS_201501150316	m,p-Xylenes	ND	20	21.4	ug/L	107	(79-142)		
MSD_201501150316	m,p-Xylenes	ND	20	22.3	ug/L	112	(79-142)	20	4.1
LCS1	m-Dichlorobenzene (1,3-DCB)		20	20.1	ug/L	101	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	18.9	ug/L	94	(76-124)	20	6.2
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	m-Dichlorobenzene (1,3-DCB)	ND	10	9.53	ug/L	95	(76-139)		
MSD_201501150316	m-Dichlorobenzene (1,3-DCB)	ND	10	9.71	ug/L	97	(76-139)	20	1.9
LCS1	Methyl Tert-butyl ether (MTBE)		20	20.4	ug/L	102	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	19.2	ug/L	96	(70-130)	20	6.1

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.580	ug/L	116	(50-150)		
MS_201501150316	Methyl Tert-butyl ether (MTBE)	ND	10	9.93	ug/L	99	(70-130)		
MSD_201501150316	Methyl Tert-butyl ether (MTBE)	ND	10	10.5	ug/L	105	(70-130)	20	5.6
LCS1	o-Dichlorobenzene (1,2-DCB)		20	20.7	ug/L	103	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.6	ug/L	103	(79-118)	20	0.48
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501150316	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(80-125)		
MSD_201501150316	o-Dichlorobenzene (1,2-DCB)	ND	10	11.1	ug/L	111	(80-125)	20	7.5
LCS1	o-Xylene		20	21.0	ug/L	105	(79-120)		
LCS2	o-Xylene		20	19.2	ug/L	96	(79-120)	20	9.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501150316	o-Xylene	ND	10	9.41	ug/L	94	(91-123)		
MSD_201501150316	o-Xylene	ND	10	9.78	ug/L	98	(91-123)	20	3.9
LCS1	p-Dichlorobenzene (1,4-DCB)		20	20.7	ug/L	103	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.1	ug/L	100	(74-130)	20	2.9
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201501150316	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(71-145)		
MSD_201501150316	p-Dichlorobenzene (1,4-DCB)	ND	10	10.7	ug/L	107	(71-145)	20	2.8
LCS1	Styrene		20	20.1	ug/L	100	(77-125)		
LCS2	Styrene		20	19.2	ug/L	96	(77-125)	20	4.6
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Styrene	ND	10	6.89	ug/L	69	(66-142)		
MSD_201501150316	Styrene	ND	10	6.42	ug/L	64	(66-142)	20	7.1
LCS1	Tetrachloroethylene (PCE)		20	20.3	ug/L	102	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	17.9	ug/L	90	(79-122)	20	13
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Tetrachloroethylene (PCE)	ND	10	9.64	ug/L	96	(72-146)		
MSD_201501150316	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(72-146)	20	0.10
LCS1	Tetrahydrofuran		200	209	ug/L	104	(67-130)		
LCS2	Tetrahydrofuran		200	195	ug/L	98	(67-130)	20	6.9
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	4.91	ug/L	98	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501150316	Tetrahydrofuran	ND	100	99.9	ug/L	100	(68-134)		
MSD_201501150316	Tetrahydrofuran	ND	100	105	ug/L	105	(68-134)	20	5.0
LCS1	Toluene		20	21.2	ug/L	106	(80-118)		
LCS2	Toluene		20	19.1	ug/L	95	(80-118)	20	10
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201501150316	Toluene	ND	10	9.44	ug/L	94	(66-143)		
MSD_201501150316	Toluene	ND	10	9.85	ug/L	99	(66-143)	20	4.3
LCS1	Toluene-d8 (S)			112	%	112	(70-130)		
LCS2	Toluene-d8 (S)			105	%	105	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		
MS_201501150316	Toluene-d8 (S)			105	%	105	(70-130)		
MSD_201501150316	Toluene-d8 (S)			105	%	105	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	19.6	ug/L	98	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	18.0	ug/L	90	(82-122)	20	8.5
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	trans-1,2-Dichloroethylene	ND	10	9.46	ug/L	95	(74-138)		
MSD_201501150316	trans-1,2-Dichloroethylene	ND	10	10.1	ug/L	101	(74-138)	20	6.5
LCS1	trans-1,3-Dichloropropene		20	21.9	ug/L	109	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	20.6	ug/L	103	(64-126)	20	6.1
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201501150316	trans-1,3-Dichloropropene	ND	10	10.8	ug/L	108	(61-127)		
MSD_201501150316	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(61-127)	20	3.6
LCS1	Trichloroethylene (TCE)		20	20.4	ug/L	102	(78-119)		
LCS2	Trichloroethylene (TCE)		20	18.3	ug/L	92	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Trichloroethylene (TCE)	ND	10	9.65	ug/L	97	(71-139)		
MSD_201501150316	Trichloroethylene (TCE)	ND	10	9.94	ug/L	99	(71-139)	20	3.0
LCS1	Trichlorofluoromethane		20	18.7	ug/L	93	(70-145)		
LCS2	Trichlorofluoromethane		20	16.9	ug/L	85	(70-145)	20	10
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501150316	Trichlorofluoromethane	ND	10	10.4	ug/L	104	(63-161)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501150316	Trichlorofluoromethane	ND	10	11.0	ug/L	110	(63-161)	20	5.6
LCS1	Vinyl Acetate		100	156	ug/L	156	(72-136)		
LCS2	Vinyl Acetate		100	145	ug/L	145	(72-136)	20	7.3
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.18	ug/L	87	(50-150)		
MS_201501150316	Vinyl Acetate	ND	50	61.8	ug/L	124	(55-146)		
MSD_201501150316	Vinyl Acetate	ND	50	64.0	ug/L	128	(55-146)	20	3.5
LCS1	Vinyl chloride (VC)		20	20.0	ug/L	100	(66-140)		
LCS2	Vinyl chloride (VC)		20	18.4	ug/L	92	(66-140)	20	8.3
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.530	ug/L	106	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.250	ug/L	83	(50-150)		
MS_201501150316	Vinyl chloride (VC)	ND	10	10.3	ug/L	103	(56-159)		
MSD_201501150316	Vinyl chloride (VC)	ND	10	10.9	ug/L	109	(56-159)	20	5.7

QC Ref# 814636 - ICPMS Metals by EPA 200.8

Analysis Date: 01/15/2015

LCS1	Copper dissolved ICAP/MS		100	95.7	ug/L	96	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	94.6	ug/L	95	(85-115)	20	1.2
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.02	ug/L	101	(50-150)		
MS_201501090433	Copper dissolved ICAP/MS	ND	100	97.0	ug/L	96	(70-130)		
MS2_201501160024	Copper dissolved ICAP/MS	ND	100	95.4	ug/L	95	(70-130)		
MSD_201501090433	Copper dissolved ICAP/MS	ND	100	101	ug/L	100	(70-130)	20	4.0
MSD2_201501160024	Copper dissolved ICAP/MS	ND	100	94.9	ug/L	95	(70-130)	20	0.53

QC Ref# 814640 - ICPMS Metals by EPA 200.8

Analysis Date: 01/15/2015

LCS1	Copper dissolved ICAP/MS		100	96.2	ug/L	96	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.0
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201501090441	Copper Total ICAP/MS	82	100	95.6	ug/L	96	(70-130)		
MSD_201501090441	Copper Total ICAP/MS	82	100	96.2	ug/L	96	(70-130)	20	0.63

QC Ref# 814692 - ICPMS Metals by EPA 200.8

Analysis Date: 01/19/2015

LCS1	Antimony Total ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)	20	0.62
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501120311	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		
MS2_201501130154	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501120311	Antimony Total ICAP/MS	ND	50	52.4	ug/L	104	(70-130)	20	1.3
MSD2_201501130154	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	5.7
LCS1	Arsenic Total ICAP/MS		20	18.7	ug/L	94	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	0.53
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.978	ug/L	98	(50-150)		
MS_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)		
MS2_201501130154	Arsenic Total ICAP/MS	3.3	20	23.4	ug/L	101	(70-130)		
MSD_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)	20	0.0
MSD2_201501130154	Arsenic Total ICAP/MS	3.3	20	22.4	ug/L	96	(70-130)	20	4.4
LCS1	Barium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201501120311	Barium Total ICAP/MS	26	100	130	ug/L	104	(70-130)		
MS2_201501130154	Barium Total ICAP/MS	48	100	154	ug/L	106	(70-130)		
MSD_201501120311	Barium Total ICAP/MS	26	100	131	ug/L	105	(70-130)	20	0.77
MSD2_201501130154	Barium Total ICAP/MS	48	100	147	ug/L	100	(70-130)	20	4.7
LCS1	Beryllium Total ICAP/MS		5.0	4.54	ug/L	91	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.49	ug/L	90	(85-115)	20	1.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.03	ug/L	101	(70-130)		
MS2_201501130154	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)	20	0.60
MSD2_201501130154	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)	20	7.4
LCS1	Cadmium Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.52
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.580	ug/L	116	(50-150)		
MS_201501120311	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501130154	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501120311	Cadmium Total ICAP/MS	ND	20	20.5	ug/L	103	(70-130)	20	1.5
MSD2_201501130154	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	4.5
LCS1	Chromium Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.30
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501120311	Chromium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201501130154	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501120311	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.90
MSD2_201501130154	Chromium Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)	20	5.1
LCS1	Cobalt Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.5	ug/L	100	(85-115)	20	2.4
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.99	ug/L	100	(50-150)		
MS_201501120311	Cobalt Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MS2_201501130154	Cobalt Total ICAP/MS	ND	100	99.3	ug/L	99	(70-130)		
MSD_201501120311	Cobalt Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)	20	0.20
MSD2_201501130154	Cobalt Total ICAP/MS	ND	100	94.1	ug/L	94	(70-130)	20	5.4
LCS1	Copper dissolved ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper dissolved ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MSD_201501120311	Copper dissolved ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
LCS1	Copper Total ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper Total ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MS2_201501130154	Copper Total ICAP/MS	ND	100	94.7	ug/L	95	(70-130)		
MSD_201501120311	Copper Total ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
MSD2_201501130154	Copper Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)	20	4.8
LCS1	Lead Total ICAP/MS		20	18.1	ug/L	91	(85-115)		
LCS2	Lead Total ICAP/MS		20	18.0	ug/L	90	(85-115)	20	0.55
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	100	(50-150)		
MS_201501120311	Lead Total ICAP/MS	ND	20	18.3	ug/L	92	(70-130)		
MS2_201501130154	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MSD_201501120311	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	0.55
MSD2_201501130154	Lead Total ICAP/MS	ND	20	17.5	ug/L	88	(70-130)	20	5.0
LCS1	Molybdenum dissolved ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.99	ug/L	99	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501120311	Molybdenum dissolved ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MSD_201501120311	Molybdenum dissolved ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
LCS1	Molybdenum Total ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.99	ug/L	99	(50-150)		
MS_201501120311	Molybdenum Total ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MS2_201501130154	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MSD_201501120311	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
MSD2_201501130154	Molybdenum Total ICAP/MS	ND	100	92.5	ug/L	92	(70-130)	20	6.1
LCS1	Nickel Total ICAP/MS		50	45.9	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.9	ug/L	94	(85-115)	20	2.2
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201501120311	Nickel Total ICAP/MS	ND	50	45.8	ug/L	91	(70-130)		
MS2_201501130154	Nickel Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD_201501120311	Nickel Total ICAP/MS	ND	50	46.7	ug/L	93	(70-130)	20	2.0
MSD2_201501130154	Nickel Total ICAP/MS	ND	50	44.3	ug/L	88	(70-130)	20	4.8
LCS1	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.51	ug/L	110	(50-150)		
MS_201501120311	Selenium Total ICAP/MS	ND	20	23.5	ug/L	116	(70-130)		
MS2_201501130154	Selenium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)		
MSD_201501120311	Selenium Total ICAP/MS	ND	20	23.4	ug/L	116	(70-130)	20	0.43
MSD2_201501130154	Selenium Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	3.7
LCS1	Thallium Total ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Thallium Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	1.1
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	101	(50-150)		
MS_201501120311	Thallium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)		
MS2_201501130154	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)		
MSD_201501120311	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	1.6
MSD2_201501130154	Thallium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	5.4
LCS1	Vanadium Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)	20	1.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.96	ug/L	99	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501120311	Vanadium Total ICAP/MS	ND	100	98.6	ug/L	99	(70-130)		
MS2_201501130154	Vanadium Total ICAP/MS	7.2	100	106	ug/L	99	(70-130)		
MSD_201501120311	Vanadium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.4
MSD2_201501130154	Vanadium Total ICAP/MS	7.2	100	102	ug/L	95	(70-130)	20	3.9
LCS1	Zinc Total ICAP/MS		100	89.1	ug/L	89	(85-115)		
LCS2	Zinc Total ICAP/MS		100	90.8	ug/L	91	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	19.4	ug/L	97	(50-150)		
MS_201501120311	Zinc Total ICAP/MS	ND	100	99.1	ug/L	99	(70-130)		
MS2_201501130154	Zinc Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)		
MSD_201501120311	Zinc Total ICAP/MS	ND	100	99.8	ug/L	100	(70-130)	20	0.80
MSD2_201501130154	Zinc Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	6.1

QC Ref# 814885 - ICPMS Metals by EPA 200.8

Analysis Date: 01/19/2015

LCS1	Silver dissolved ICAP/MS		50	45.3	ug/L	91	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	47.7	ug/L	96	(85-115)	20	5.2
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.471	ug/L	94	(50-150)		
MS_201501080756	Silver dissolved ICAP/MS	ND	50	35.6	ug/L	71	(70-130)		
MS2_201501080754	Silver dissolved ICAP/MS	ND	50	28.9	ug/L	<u>58</u>	(70-130)		
MSD_201501080756	Silver dissolved ICAP/MS	ND	50	38.8	ug/L	77	(70-130)	20	8.6
MSD2_201501080754	Silver dissolved ICAP/MS	ND	50	29.2	ug/L	<u>58</u>	(70-130)	20	1.0

QC Ref# 815041 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 01/21/2015

LCS1	Total phosphorus as P		0.4	0.383	mg/L	96	(90-110)		
LCS2	Total phosphorus as P		0.4	0.399	mg/L	100	(90-110)	20	4.1
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0235	mg/L	118	(50-150)		
MS_201501070231	Total phosphorus as P	1.5	0.4	2.46	mg/L	<u>117</u>	(90-110)		
MS_201501080495	Total phosphorus as P	ND	0.4	0.340	mg/L	<u>81</u>	(90-110)		
MSD_201501070231	Total phosphorus as P	1.5	0.4	2.40	mg/L	109	(90-110)	20	2.5
MSD2_201501080495	Total phosphorus as P	ND	0.4	0.325	mg/L	<u>78</u>	(90-110)	20	4.5

QC Ref# 815373 - ICPMS Metals by EPA 200.8

Analysis Date: 01/20/2015

LCS1	Silver dissolved ICAP/MS		50	47.7	ug/L	95	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	44.1	ug/L	88	(85-115)	20	7.8
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.478	ug/L	96	(50-150)		
MS_201501140450	Silver dissolved ICAP/MS	ND	50	22.4	ug/L	<u>45</u>	(70-130)		
MS2_201501140760	Silver dissolved ICAP/MS	ND	50	13.6	ug/L	<u>27</u>	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501140450	Silver dissolved ICAP/MS	ND	50	20.6	ug/L	<u>41</u>	(70-130)	20	8.4
MSD2_201501140760	Silver dissolved ICAP/MS	ND	50	24.5	ug/L	<u>49</u>	(70-130)	20	<u>57</u>

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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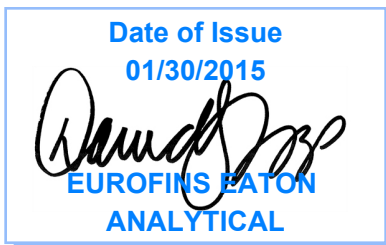


AT-1807

Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 515329
Project: CGR-OLANCHA
Group: GEOSYNTEC-SB

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 515329
 Project: CGR-OLANCHA
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 09, 2015 at 1144**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201501090433	FP-1-20150107	01/07/2015 1325
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090434	AP-2-20150107	01/07/2015 1445
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090437	AP-2-20150107-DUP	01/07/2015 1510
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090438	AP-3-20150108	01/08/2015 0800

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
P.O. Drawer A
Olancha, CA 93549

Client ID: CRYSTAL-ROX
Folder #: 515329
Project: CGR-OLANCHA
Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
Phone: 760-764-1822

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **January 09, 2015 at 1144**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090439	EP-1-20150108	01/08/2015 0930
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090440	EP-2-20150108	01/08/2015 1025
	@ICPMS @ICPMS @QUANT2000	
	@THM524 @VOAPP Alkalinity in CaCO3 units	
	Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Calcium Total ICAP	
	Chloride Free Chlorine Residual Freight - RUSH	
	Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC	
	Orthophosphate as P (OPO4) PH (H3=past HT not compliant) Sodium Total ICAP	
	Sulfate Surfactants Total Chlorine Residual	
	Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc	
	Total phosphorus as P	
201501090441	CT-1-20150108	01/08/2015 1235

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 515329
 Project: CGR-OLANCHA
 Sample Group: GEOSYNTEC-SB

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **January 09, 2015 at 1144**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample ID	Sample Date
	@ICPMS	@ICPMS	@QUANT2000
	@THM524	@VOAPP	Alkalinity in CaCO3 units
	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Calcium Total ICAP
	Chloride	Free Chlorine Residual	Freight - RUSH
	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP
	Sulfate	Surfactants	Total Chlorine Residual
	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc
	Total phosphorus as P		
201501090442	QCEB-4-20150108		01/08/2015 1300
	@ICPMS	@ICPMS	@QUANT2000
	@THM524	@VOAPP	Alkalinity in CaCO3 units
	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Calcium Total ICAP
	Chloride	Free Chlorine Residual	Freight - RUSH
	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC
	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP
	Sulfate	Surfactants	Total Chlorine Residual
	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc
	Total phosphorus as P		
201501090443	QCTB-2-20150108		01/08/2015 1325
	@THM524 TB	@VOAPP TB	

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @QUANT2000 -- Quantitray Coliforms
- @THM524 -- Volatile Organics by GCMS
- @THM524 TB -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624



Eaton Analytical

CHAIN OF CUSTODY RECORD

515329

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

LOGIN COMMENTS:

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona
 Monrovia 40-0.2 = 3.8 °C (Compliance: 4 ± 2 °C)
 CONDITION OF BLUE ICE: Frozen Partially Frozen Thawed No Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other:

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: *Geosyntec Consultants*
 Attn: Ryan Smith - 805-897-3800

EEA CLIENT CODE: *Crystal-Rox*
 COC ID:

PROJECT CODE:

CGR-Olancho

SAMPLE GROUP:

Geosyntec-SB

STD 1 wk ___ 3 day ___ 2 day ___ 1 day ___

TAT requested: rush by adv notice only

COMPLIANCE SAMPLES

NON-COMPLIANCE SAMPLES

REGULATION INVOLVED: *LR WQCB*

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
1/7/15	1325	FP-1-20150107		RGW			Analyze per Client Conversation (7 coolers)
1/7/15	1445	AP-2-20150107		RGW			
1/7/15	1510	AP-2-20150107-DUP		RGW			
1/8/15	0800	AP-3-20150108		RGW			
1/8/15	0930	EP-1-20150108		RGW			
1/8/15	1025	EP-2-20150108		RGW			
1/8/15	1235	CT-1-20150108		RGW			
1/8/15	1300	QCEB-4-20150108	<i>BW-RGW</i>	<i>1/8/15</i>			<i>Monrovia 1/9 11:49</i>
1/8/15	-	QCTB-4-20150108	<i>BW-RGW</i>				

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil
 RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SAMPLED BY:	RELINQUISHED BY:	RECEIVED BY:	RECEIVED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
<i>Brian Franz</i>	<i>Brian Franz</i>	<i>Maria Escalante</i>	<i>Maria Escalante</i>	<i>Brian Franz</i>	<i>Brian Franz</i>	<i>Geosyntec / Staff Geologist</i>	<i>1/8/15</i>	<i>1320</i>
						<i>KEA</i>	<i>1/9/15</i>	<i>11:49</i>



Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Crystal Geyser Roxane
David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 103306
Created By: DST
Deliver By: 12/29/2014
STC: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: GEOSYNTEC-SB
PO#/JOB#:

Ship Sample Kits to
Geosyntec Consultants
924 Anacapa Street, Suite 4A
Santa Barbara, CA 93101

Attn: Brian Franz

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
1210 South Highway 395
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

2.4
2.6
3.4
3.8
3.4
2.8
2.0

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
18	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
18	@ICPMS, Surfactants	1 500ml poly no preservative	
18	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
18	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
4	@THM524 TB	3 40ml amber glass vial 1 drop thio (8%) + H2O	
18	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
4	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
18	Alkalinity in CaCO3 units, PH (H3=past HT not compliant)	1 250ml poly no preservative	
18	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
18	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
18	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
18	Orthophosphate as P	1 125ml poly OPO4_no preservative	
18	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

SHIPPING: Please deliver Dec 29th to include sampling instructions and wet ice packing instructions. Separate cooler for each sample point and Blank. And include 4 gallons of DI or lab reagent water.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



J142214092303uv

Olancha, CA 93549

Ship Date: 08JAN15
ActWgt: 19.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

7 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 4316

0263

Mstr# 7725 1539 3592

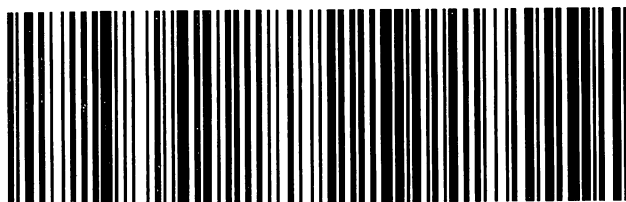
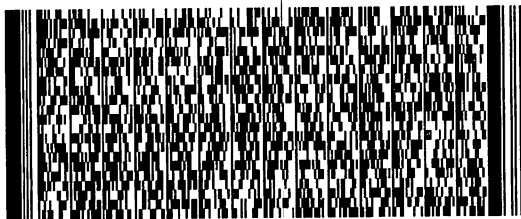
0201

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522G1/8F15/8AC9

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



J142214092303uv

Olanca, CA 93549

Ship Date: 08JAN15
Act/Wgt: 16.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158

BILL SENDER

Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

Ref #
Invoice #
PO #
Dept #

5 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 4280

0263

Mstr# 7725 1539 3592

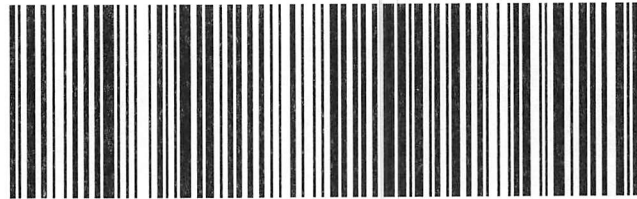
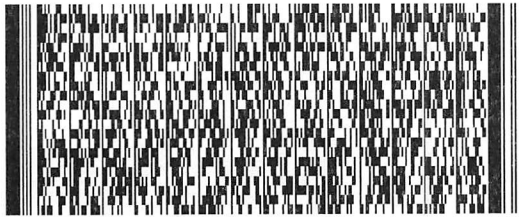
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522G18F158AC9

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Olancho, CA 93549

Origin ID: IYKA



Ship Date: 08JAN15
ActWgt: 26.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

3 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 4030

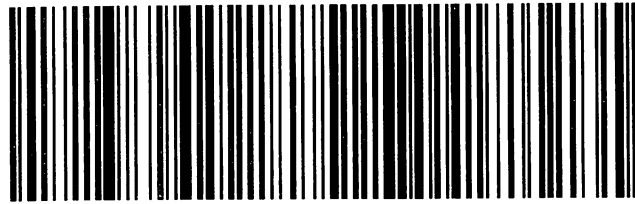
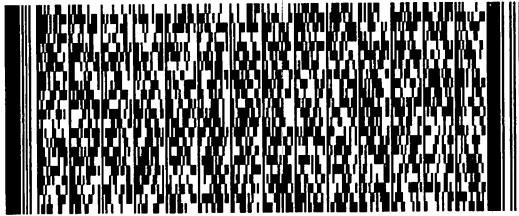
0263

Mstr# 7725 1539 3592

0201

91016
CA-US
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92 WHPA



522G18F15/8AC9

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



Olancho, CA 93549

Ship Date: 08JAN15
Act/Wgt: 18.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

4 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 3526

0263

Mstr# 7725 1539 3592

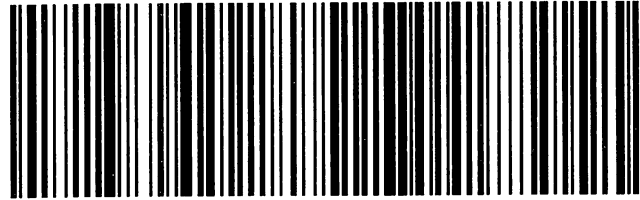
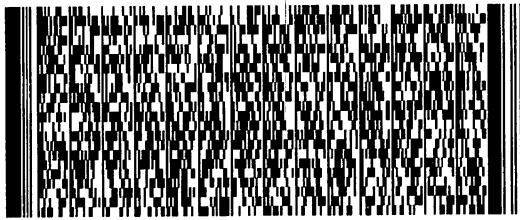
0201

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522G1/8F 15/8A09

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



Olancha, CA 93549

Ship Date: 08JAN15
Act/Wgt: 20.0 LB
CAD: 7147219/NET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

BILL SENDER

Ref #
Invoice #
PO #
Dept #

MONROVIA, CA 91016

2 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 3813

0263

Mstr# 7725 1539 3592

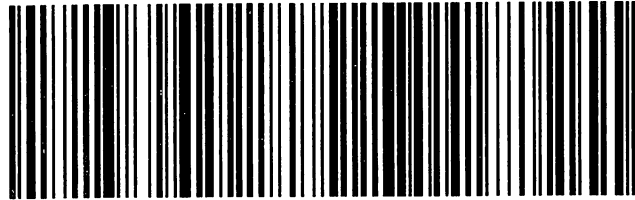
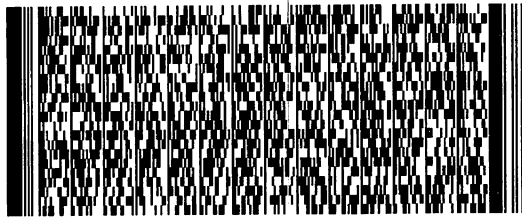
0201

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Olanca, CA 93549

Origin ID: IYKA



Ship Date: 08JAN15
ActWgt: 31.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

1 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

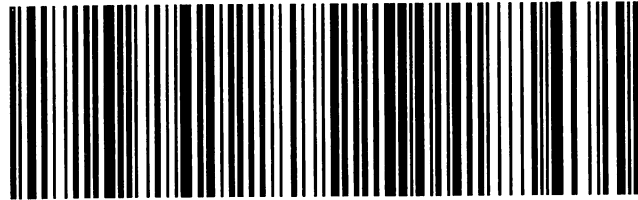
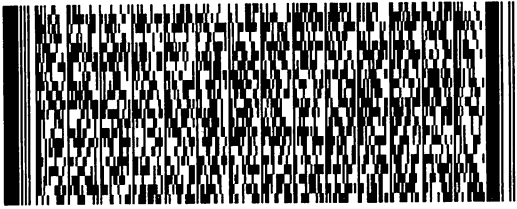
TRK# 7725 1539 3592

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MASTER

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522G1/8F15/8AC9

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From: (760) 764-2885
Manuel Luna
CG Roxane LLC
1210 s. hwy 395

Origin ID: IYKA



Olancha, CA 93549

Ship Date: 08JAN15
ActWgt: 16.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
Linda GeddesDavid Tripp
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

6 of 7

FRI - 09 JAN AA
STANDARD OVERNIGHT

MPS# 7725 1539 4761

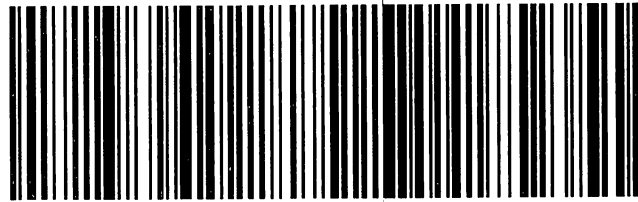
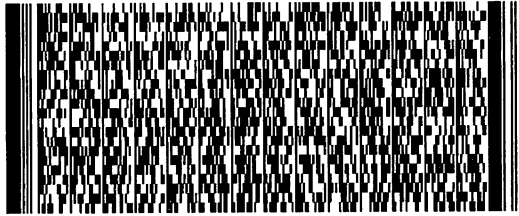
0263

Mstr# 7725 1539 3592

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750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 515329

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201501090433	<u>FP-1-20150107</u>			
01/12/2015 17:13	Alkalinity in CaCO3 units		110		mg/L	2
01/14/2015 14:10	Ammonia Nitrogen		0.23		mg/L	0.05
01/14/2015 16:42	Arsenic dissolved ICAP/MS		5.6		ug/L	1
01/12/2015 21:15	Arsenic Total ICAP/MS		69	10	ug/L	1
01/14/2015 16:42	Barium dissolved ICAP/MS		40		ug/L	2
01/12/2015 21:30	Barium Total ICAP/MS		860	2000	ug/L	10
01/12/2015 22:18	Beryllium Total ICAP/MS		2.0	4	ug/L	1
01/13/2015 12:09	Bicarb. Alkalinity as HCO3calc		130		mg/L	2
01/15/2015 23:50	Calcium Total ICAP		58		mg/L	1
01/09/2015 13:22	Chloride		3.2	250	mg/L	1
01/12/2015 21:15	Chromium Total ICAP/MS		54	100	ug/L	1
01/12/2015 21:15	Cobalt Total ICAP/MS		33		ug/L	2
01/12/2015 21:15	Copper Total ICAP/MS		140	1300	ug/L	2
01/13/2015 14:08	Kjeldahl Nitrogen		0.70		mg/L	0.2
01/12/2015 21:15	Lead Total ICAP/MS		42	15	ug/L	0.5
01/15/2015 23:50	Magnesium Total ICAP		41		mg/L	0.1
01/14/2015 16:42	Molybdenum dissolved ICAP/MS		30		ug/L	2
01/12/2015 21:15	Molybdenum Total ICAP/MS		13		ug/L	2
01/12/2015 21:15	Nickel Total ICAP/MS		28		ug/L	5
01/09/2015 13:22	Nitrate as Nitrogen by IC		0.51	10	mg/L	0.1
01/09/2015 13:23	Orthophosphate as P		0.71		mg/L	0.01
01/12/2015 17:13	PH (H3=past HT not compliant)		7.7		Units	0.1
01/15/2015 23:50	Sodium Total ICAP		31		mg/L	1
01/09/2015 13:22	Sulfate		30	250	mg/L	0.5
01/12/2015 21:15	Thallium Total ICAP/MS		1.9	2	ug/L	1
01/12/2015 15:13	Total Dissolved Solids (TDS)		270	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		1.2		mg/L	0.2
01/22/2015 16:09	Total phosphorus as P		4.7		mg/L	0.1
01/12/2015 21:30	Vanadium Total ICAP/MS		270		ug/L	15
01/12/2015 21:15	Zinc Total ICAP/MS		420	5000	ug/L	20
		201501090434	<u>AP-2-20150107</u>			
01/14/2015 11:30	Alkalinity in CaCO3 units		6200		mg/L	100
01/14/2015 15:47	Ammonia Nitrogen		0.60		mg/L	0.1
01/16/2015 20:02	Antimony Total ICAP/MS		2.0	6	ug/L	1
01/14/2015 19:56	Arsenic dissolved ICAP/MS		3600		ug/L	20

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 515329

Crystal Geysers Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/15/2015 23:11	Arsenic Total ICAP/MS		3500	10	ug/L	20
01/15/2015 22:20	Barium Total ICAP/MS		150	2000	ug/L	2
01/16/2015 2:50	Benzene		5.6		ug/L	0.5
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		170		mg/L	2
01/15/2015 22:20	Cadmium Total ICAP/MS		10	5	ug/L	0.5
01/15/2015 23:54	Calcium Total ICAP		17		mg/L	1
01/09/2015 15:18	Chloride		52	250	mg/L	50
01/15/2015 22:20	Chromium Total ICAP/MS		50	100	ug/L	1
01/15/2015 22:20	Cobalt Total ICAP/MS		9.0		ug/L	2
01/21/2015 13:08	Copper dissolved ICAP/MS		38		ug/L	2
01/15/2015 22:20	Copper Total ICAP/MS		55	1300	ug/L	2
01/13/2015 14:09	Kjeldahl Nitrogen		2.6		mg/L	0.2
01/15/2015 22:20	Lead Total ICAP/MS		37	15	ug/L	0.5
01/15/2015 23:54	Magnesium Total ICAP		14		mg/L	0.1
01/14/2015 19:56	Molybdenum dissolved ICAP/MS		2200		ug/L	40
01/15/2015 23:11	Molybdenum Total ICAP/MS		2100		ug/L	40
01/15/2015 22:20	Nickel Total ICAP/MS		8.0		ug/L	5
01/09/2015 15:18	Nitrate as Nitrogen by IC		0.98	10	mg/L	0.63
01/09/2015 14:55	Orthophosphate as P		0.51		mg/L	0.25
01/12/2015 16:40	PH (H3=past HT not compliant)		12		Units	0.1
01/19/2015 18:03	Sodium Total ICAP		3000		mg/L	10
01/15/2015 23:54	Styrene		0.59		ug/L	0.5
01/09/2015 15:18	Sulfate		170	250	mg/L	25
01/16/2015 2:50	Toluene		2.4		ug/L	0.5
01/12/2015 15:14	Total Dissolved Solids (TDS)		7500	500	mg/L	10
01/14/2015 09:35	Total Nitrogen-Calc		3.6		mg/L	0.2
01/22/2015 16:11	Total phosphorus as P		4.4		mg/L	0.1
01/14/2015 19:56	Vanadium Dissolved ICAP/MS		1700		ug/L	60
01/15/2015 23:11	Vanadium Total ICAP/MS		1900		ug/L	60
01/15/2015 22:20	Zinc Total ICAP/MS		86	5000	ug/L	20
201501090437 <u>AP-2-20150107-DUP</u>						
01/14/2015 11:31	Alkalinity in CaCO3 units		6200		mg/L	100
01/14/2015 15:49	Ammonia Nitrogen		0.32		mg/L	0.1
01/16/2015 20:03	Antimony Total ICAP/MS		4.8	6	ug/L	1
01/14/2015 19:52	Arsenic dissolved ICAP/MS		3700		ug/L	20
01/15/2015 23:13	Arsenic Total ICAP/MS		3500	10	ug/L	20
01/15/2015 22:30	Barium Total ICAP/MS		38	2000	ug/L	2

SUMMARY OF POSITIVE DATA ONLY

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Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/16/2015 3:12	Benzene		6.1		ug/L	0.5
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		170		mg/L	2
01/15/2015 22:30	Cadmium Total ICAP/MS		11	5	ug/L	0.5
01/15/2015 23:59	Calcium Total ICAP		5.3		mg/L	1
01/09/2015 15:31	Chloride		52	250	mg/L	50
01/15/2015 22:30	Chromium Total ICAP/MS		9.8	100	ug/L	1
01/15/2015 22:30	Cobalt Total ICAP/MS		2.3		ug/L	2
01/19/2015 16:23	Copper dissolved ICAP/MS		35		ug/L	40
01/15/2015 22:30	Copper Total ICAP/MS		36	1300	ug/L	2
01/13/2015 14:10	Kjeldahl Nitrogen		2.3		mg/L	0.2
01/15/2015 22:30	Lead Total ICAP/MS		10	15	ug/L	0.5
01/15/2015 23:59	Magnesium Total ICAP		3.4		mg/L	0.1
01/14/2015 19:52	Molybdenum dissolved ICAP/MS		2200		ug/L	40
01/15/2015 23:13	Molybdenum Total ICAP/MS		2200		ug/L	40
01/09/2015 15:31	Nitrate as Nitrogen by IC		0.69	10	mg/L	0.63
01/09/2015 14:56	Orthophosphate as P		0.52		mg/L	0.25
01/12/2015 16:57	PH (H3=past HT not compliant)		12		Units	0.1
01/19/2015 18:08	Sodium Total ICAP		3100		mg/L	10
01/16/2015 0:16	Styrene		0.50		ug/L	0.5
01/09/2015 15:31	Sulfate		170	250	mg/L	25
01/16/2015 3:12	Toluene		2.5		ug/L	0.5
01/12/2015 15:15	Total Dissolved Solids (TDS)		7600	500	mg/L	10
01/14/2015 09:35	Total Nitrogen-Calc		3.0		mg/L	0.2
01/28/2015 19:04	Total phosphorus as P		3.8		mg/L	0.2
01/14/2015 19:52	Vanadium Dissolved ICAP/MS		1800		ug/L	60
01/15/2015 23:13	Vanadium Total ICAP/MS		1900		ug/L	60
01/15/2015 22:30	Zinc Total ICAP/MS		28	5000	ug/L	20
		201501090438	AP-3-20150108			
01/12/2015 17:23	Alkalinity in CaCO3 units		200		mg/L	2
01/14/2015 14:14	Ammonia Nitrogen		0.14		mg/L	0.05
01/16/2015 20:04	Antimony Total ICAP/MS		1.2	6	ug/L	1
01/14/2015 19:59	Arsenic dissolved ICAP/MS		16		ug/L	10
01/15/2015 22:32	Arsenic Total ICAP/MS		93	10	ug/L	1
01/14/2015 19:59	Barium dissolved ICAP/MS		42		ug/L	20
01/15/2015 23:15	Barium Total ICAP/MS		1400	2000	ug/L	20
01/15/2015 22:32	Beryllium Total ICAP/MS		1.9	4	ug/L	1
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		240		mg/L	2

SUMMARY OF POSITIVE DATA ONLY

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1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/15/2015 22:32	Cadmium Total ICAP/MS		0.82	5	ug/L	0.5
01/19/2015 18:12	Calcium Total ICAP		450		mg/L	5
01/09/2015 20:41	Chloride		180	250	mg/L	5
01/15/2015 22:32	Chromium Total ICAP/MS		58	100	ug/L	1
01/15/2015 22:32	Cobalt Total ICAP/MS		35		ug/L	2
01/15/2015 22:32	Copper Total ICAP/MS		170	1300	ug/L	2
01/13/2015 13:56	Kjeldahl Nitrogen		1.6		mg/L	0.2
01/15/2015 22:32	Lead Total ICAP/MS		41	15	ug/L	0.5
01/16/2015 12:03	Magnesium Total ICAP		57		mg/L	0.1
01/19/2015 16:26	Molybdenum dissolved ICAP/MS		65		ug/L	20
01/15/2015 22:32	Molybdenum Total ICAP/MS		39		ug/L	2
01/15/2015 22:32	Nickel Total ICAP/MS		36		ug/L	5
01/09/2015 13:28	Orthophosphate as P		0.26		mg/L	0.01
01/12/2015 17:23	PH (H3=past HT not compliant)		7.7		Units	0.1
01/19/2015 18:12	Sodium Total ICAP		180		mg/L	5
01/09/2015 20:41	Sulfate		80	250	mg/L	2.5
01/15/2015 22:32	Thallium Total ICAP/MS		1.6	2	ug/L	1
01/13/2015 15:22	Total Dissolved Solids (TDS)		820	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		1.6		mg/L	0.2
01/22/2015 16:01	Total phosphorus as P		1.6		mg/L	0.1
01/15/2015 22:32	Vanadium Total ICAP/MS		190		ug/L	3
01/15/2015 22:32	Zinc Total ICAP/MS		450	5000	ug/L	20
		201501090439	<u>EP-1-20150108</u>			
01/12/2015 17:31	Alkalinity in CaCO3 units		240		mg/L	2
01/14/2015 14:17	Ammonia Nitrogen		0.072		mg/L	0.05
01/16/2015 20:05	Antimony Total ICAP/MS		1.6	6	ug/L	1
01/14/2015 19:21	Arsenic dissolved ICAP/MS		12		ug/L	1
01/15/2015 22:34	Arsenic Total ICAP/MS		28	10	ug/L	1
01/14/2015 19:21	Barium dissolved ICAP/MS		3.3		ug/L	2
01/15/2015 22:34	Barium Total ICAP/MS		230	2000	ug/L	2
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		290		mg/L	2
01/16/2015 12:08	Calcium Total ICAP		160		mg/L	1
01/09/2015 20:53	Chloride		45	250	mg/L	1
01/15/2015 22:34	Chromium Total ICAP/MS		18	100	ug/L	1
01/15/2015 22:34	Cobalt Total ICAP/MS		7.5		ug/L	2
01/15/2015 22:34	Copper Total ICAP/MS		42	1300	ug/L	2
01/13/2015 13:59	Kjeldahl Nitrogen		0.60		mg/L	0.2

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Laboratory Hits
 Report: 515329

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/15/2015 22:34	Lead Total ICAP/MS		13	15	ug/L	0.5
01/16/2015 12:08	Magnesium Total ICAP		37		mg/L	0.1
01/14/2015 19:21	Molybdenum dissolved ICAP/MS		7.8		ug/L	2
01/15/2015 22:34	Molybdenum Total ICAP/MS		9.2		ug/L	2
01/15/2015 22:34	Nickel Total ICAP/MS		12		ug/L	5
01/09/2015 14:52	Orthophosphate as P		1.1		mg/L	0.05
01/12/2015 17:31	PH (H3=past HT not compliant)		8.4		Units	0.1
01/16/2015 12:08	Sodium Total ICAP		64		mg/L	1
01/09/2015 20:53	Sulfate		31	250	mg/L	0.5
01/13/2015 15:23	Total Dissolved Solids (TDS)		320	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		0.60		mg/L	0.2
01/22/2015 16:07	Total phosphorus as P		1.4		mg/L	0.04
01/15/2015 22:34	Vanadium Total ICAP/MS		35		ug/L	3
01/15/2015 22:34	Zinc Total ICAP/MS		100	5000	ug/L	20
		201501090440	<u>EP-2-20150108</u>			
01/10/2015 14:36	24 Hour Total Coliform Confrm (Large Wells)		1.0		PW	1
01/12/2015 17:42	Alkalinity in CaCO3 units		140		mg/L	2
01/14/2015 19:49	Arsenic dissolved ICAP/MS		10		ug/L	1
01/15/2015 22:36	Arsenic Total ICAP/MS		150	10	ug/L	1
01/14/2015 19:49	Barium dissolved ICAP/MS		5.4		ug/L	2
01/15/2015 23:29	Barium Total ICAP/MS		6300	2000	ug/L	200
01/15/2015 22:36	Beryllium Total ICAP/MS		2.9	4	ug/L	1
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		170		mg/L	2
01/15/2015 22:36	Cadmium Total ICAP/MS		2.6	5	ug/L	0.5
01/19/2015 18:16	Calcium Total ICAP		3000		mg/L	20
01/09/2015 21:06	Chloride		20	250	mg/L	1
01/15/2015 22:36	Chromium Total ICAP/MS		120	100	ug/L	1
01/15/2015 22:36	Cobalt Total ICAP/MS		64		ug/L	2
01/19/2015 16:29	Copper dissolved ICAP/MS		6.6		ug/L	2
01/15/2015 22:36	Copper Total ICAP/MS		310	1300	ug/L	2
01/13/2015 14:03	Kjeldahl Nitrogen		0.50		mg/L	0.2
01/15/2015 22:36	Lead Total ICAP/MS		160	15	ug/L	0.5
01/19/2015 18:16	Magnesium Total ICAP		600		mg/L	2
01/14/2015 19:49	Molybdenum dissolved ICAP/MS		5.9		ug/L	2
01/15/2015 22:36	Molybdenum Total ICAP/MS		2.5		ug/L	2
01/15/2015 22:36	Nickel Total ICAP/MS		100		ug/L	5
01/09/2015 21:06	Nitrate as Nitrogen by IC		0.25	10	mg/L	0.1

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Crystal Geysers Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/09/2015 13:27	Orthophosphate as P		0.70		mg/L	0.01
01/12/2015 17:42	PH (H3=past HT not compliant)		8.2		Units	0.1
01/15/2015 22:36	Silver Total ICAP/MS		0.99	100	ug/L	0.5
01/16/2015 12:13	Sodium Total ICAP		89		mg/L	1
01/09/2015 21:06	Sulfate		32	250	mg/L	0.5
01/15/2015 22:36	Thallium Total ICAP/MS		3.1	2	ug/L	1
01/10/2015 14:36	Total Coliform Bacteria		100		MPN/100 mL	100
01/13/2015 16:07	Total Dissolved Solids (TDS)		320	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		0.75		mg/L	0.2
01/22/2015 16:08	Total phosphorus as P		0.88		mg/L	0.04
01/15/2015 22:36	Vanadium Total ICAP/MS		120		ug/L	3
01/15/2015 22:36	Zinc Total ICAP/MS		740	5000	ug/L	20
		201501090441	<u>CT-1-20150108</u>			
01/12/2015 17:51	Alkalinity in CaCO3 units		76		mg/L	2
01/14/2015 14:22	Ammonia Nitrogen		0.28		mg/L	0.05
01/14/2015 19:12	Arsenic dissolved ICAP/MS		1.7		ug/L	1
01/15/2015 22:38	Arsenic Total ICAP/MS		50	10	ug/L	1
01/14/2015 19:12	Barium dissolved ICAP/MS		33		ug/L	2
01/15/2015 23:31	Barium Total ICAP/MS		950	2000	ug/L	40
01/15/2015 22:38	Beryllium Total ICAP/MS		2.3	4	ug/L	1
01/13/2015 12:09	Bicarb.Alkalinity as HCO3calc		92		mg/L	2
01/19/2015 18:21	Calcium Total ICAP		51		mg/L	5
01/15/2015 22:38	Chromium Total ICAP/MS		70	100	ug/L	1
01/15/2015 22:38	Cobalt Total ICAP/MS		34		ug/L	2
01/15/2015 22:38	Copper Total ICAP/MS		82	1300	ug/L	2
01/13/2015 14:04	Kjeldahl Nitrogen		1.2		mg/L	0.2
01/15/2015 22:38	Lead Total ICAP/MS		34	15	ug/L	0.5
01/19/2015 18:21	Magnesium Total ICAP		29		mg/L	0.5
01/14/2015 19:12	Molybdenum dissolved ICAP/MS		24		ug/L	2
01/15/2015 22:38	Molybdenum Total ICAP/MS		13		ug/L	2
01/15/2015 22:38	Nickel Total ICAP/MS		20		ug/L	5
01/09/2015 21:19	Nitrate as Nitrogen by IC		0.18	10	mg/L	0.1
01/09/2015 14:51	Orthophosphate as P		1.5		mg/L	0.05
01/12/2015 17:51	PH (H3=past HT not compliant)		8.1		Units	0.1
01/16/2015 12:17	Sodium Total ICAP		25		mg/L	1
01/09/2015 21:19	Sulfate		3.8	250	mg/L	0.5
01/09/2015 17:00	Total Chlorine Residual (H3=past HT not compliant)		0.11	4	mg/L	0.1

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Laboratory Hits
 Report: 515329

Crystal Geysers Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
01/13/2015 16:08	Total Dissolved Solids (TDS)		160	500	mg/L	10
01/14/2015 09:17	Total Nitrogen-Calc		1.4		mg/L	0.2
01/13/2015 21:11	Total phosphorus as P		0.63		mg/L	0.02
01/15/2015 22:38	Vanadium Total ICAP/MS		140		ug/L	3
01/15/2015 22:38	Zinc Total ICAP/MS		400	5000	ug/L	20
	201501090442	<u>QCEB-4-20150108</u>				
01/12/2015 18:00	Alkalinity in CaCO3 units		2.2		mg/L	2
01/13/2015 12:09	Bicarb. Alkalinity as HCO3calc		2.7		mg/L	2
01/15/2015 22:48	Chloroform (Trichloromethane)		0.70		ug/L	0.5
01/15/2015 22:48	Chloroform (Trichloromethane)		0.70		ug/L	0.5
01/12/2015 18:00	PH (H3=past HT not compliant)		6.0		Units	0.1
01/15/2015 22:48	Total THM		0.70	80	ug/L	0.5

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FP-1-20150107 (201501090433)						Sampled on 01/07/2015 1325		
EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Arsenic dissolved ICAP/MS	5.6	ug/L	1	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Arsenic Total ICAP/MS	69	ug/L	1	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Barium dissolved ICAP/MS	40	ug/L	2	1
1/9/2015	01/12/2015	21:30 813982	(EPA 200.8)	Barium Total ICAP/MS	860	ug/L	10	5
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	22:18 813971	(EPA 200.8)	Beryllium Total ICAP/MS	2.0	ug/L	1	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Chromium Total ICAP/MS	54	ug/L	1	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Cobalt Total ICAP/MS	33	ug/L	2	1
1/9/2015	01/19/2015	16:17 814692	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Copper Total ICAP/MS	140	ug/L	2	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Lead Total ICAP/MS	42	ug/L	0.5	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Molybdenum dissolved ICAP/MS	30	ug/L	2	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Molybdenum Total ICAP/MS	13	ug/L	2	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Nickel Total ICAP/MS	28	ug/L	5	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:38 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Thallium Total ICAP/MS	1.9	ug/L	1	1
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/12/2015	21:30 813982	(EPA 200.8)	Vanadium Total ICAP/MS	270	ug/L	15	5
1/9/2015	01/14/2015	16:42 814105	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/12/2015	21:15 813982	(EPA 200.8)	Zinc Total ICAP/MS	420	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/15/2015	23:50 814545	(EPA 200.7)	Calcium Total ICAP	58	mg/L	1	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/15/2015	23:50 814545	(EPA 200.7)	Magnesium Total ICAP	41	mg/L	0.1	1
1/9/2015	01/15/2015	23:50 814545	(EPA 200.7)	Sodium Total ICAP	31	mg/L	1	1
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confrm (Large Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confrm (Small Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	1.2	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	130	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/09/2015	13:22 813570	(EPA 300.0)	Nitrate as Nitrogen by IC	0.51	mg/L	0.1	1
	01/09/2015	13:22 813570	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/09/2015	13:22 813266	(EPA 300.0)	Chloride	3.2	mg/L	1	1
	01/09/2015	13:22 813266	(EPA 300.0)	Sulfate	30	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:09 816085	(SM4500-PE/EPA 365.1)	Total phosphorus as P	4.7 (B7)	mg/L	0.1	5
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	14:08 814081	(EPA 351.2)	Kjeldahl Nitrogen	0.70	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	14:10 814274	(EPA 350.1)	Ammonia Nitrogen	0.23	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	1,2-Dichloroethane-d4	114	%		1
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	4-Bromofluorobenzene	98	%		1

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	22:11 814447	(EPA 524.2)	Toluene-d8	84	%		1
EPA 624 - Volatile Organics by EPA 624								
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Acetone	ND	ug/L	10	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Bromodichloromethane	ND (L1)	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Vinyl Acetate	ND (L1)	ug/L	10	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	1,2-Dichloroethane-d4	114	%		1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	4-Bromofluorobenzene	98	%		1
1/14/2015	01/14/2015	22:11 814454	(EPA 624)	Toluene-d8	84	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/12/2015	17:13 813749	(SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/12/2015	01/12/2015	15:13 813769	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	270	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	17:13 813751	(SM4500-HB)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	13:20 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	13:23 813561	(4500P-E/365.1)	Orthophosphate as P	0.71 (M1)	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

AP-2-20150107 (201501090434)

Sampled on 01/07/2015 1445

EPA 200.8 - ICPMS Metals

1/9/2015	01/14/2015	19:56 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/16/2015	20:02 814906	(EPA 200.8)	Antimony Total ICAP/MS	2.0	ug/L	1	1
1/9/2015	01/14/2015	19:56 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	3600	ug/L	20	20
1/9/2015	01/15/2015	23:11 814792	(EPA 200.8)	Arsenic Total ICAP/MS	3500	ug/L	20	20
1/9/2015	01/14/2015	19:56 814106	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	40	20

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Barium Total ICAP/MS	150	ug/L	2	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Beryllium dissolved ICAP/MS	ND	ug/L	20	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Beryllium Total ICAP/MS	ND	ug/L	1	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Cadmium dissolved ICAP/MS	ND	ug/L	10	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Cadmium Total ICAP/MS	10	ug/L	0.5	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Chromium dissolved ICAP/MS	ND	ug/L	20	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Chromium Total ICAP/MS	50	ug/L	1	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Cobalt dissolved ICAP/MS	ND	ug/L	20	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Cobalt Total ICAP/MS	9.0	ug/L	2	1	
1/9/2015	01/21/2015	13:08	815460	(EPA 200.8) Copper dissolved ICAP/MS	38	ug/L	2	1	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Copper Total ICAP/MS	55	ug/L	2	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Lead dissolved ICAP/MS	ND	ug/L	10	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Lead Total ICAP/MS	37	ug/L	0.5	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Molybdenum dissolved ICAP/MS	2200	ug/L	40	20	
1/9/2015	01/15/2015	23:11	814792	(EPA 200.8) Molybdenum Total ICAP/MS	2100	ug/L	40	20	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Nickel dissolved ICAP/MS	ND	ug/L	100	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Nickel Total ICAP/MS	8.0	ug/L	5	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Selenium dissolved ICAP/MS	ND	ug/L	100	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Selenium Total ICAP/MS	ND	ug/L	5	1	
1/9/2015	01/20/2015	21:31	815373	(EPA 200.8) Silver dissolved ICAP/MS	ND	ug/L	0.5	1	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Silver Total ICAP/MS	ND	ug/L	0.5	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Thallium dissolved ICAP/MS	ND	ug/L	20	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Thallium Total ICAP/MS	ND	ug/L	1	1	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Vanadium Dissolved ICAP/MS	1700	ug/L	60	20	
1/9/2015	01/15/2015	23:11	814792	(EPA 200.8) Vanadium Total ICAP/MS	1900	ug/L	60	20	
1/9/2015	01/14/2015	19:56	814106	(EPA 200.8) Zinc dissolved ICAP/MS	ND	ug/L	400	20	
1/9/2015	01/15/2015	22:20	814792	(EPA 200.8) Zinc Total ICAP/MS	86	ug/L	20	1	
EPA 200.7 - ICP Metals									
1/9/2015	01/15/2015	23:54	814545	(EPA 200.7) Calcium Total ICAP	17	mg/L	1	1	
1/9/2015	01/15/2015	23:54	814545	(EPA 200.7) Magnesium Total ICAP	14	mg/L	0.1	1	
1/9/2015	01/19/2015	18:03	814545	(EPA 200.7) Sodium Total ICAP	3000	mg/L	10	10	
SM 9223B - Quantitray Coliforms									
1/9/2015	01/10/2015	14:36	813622	(SM 9223B) 24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1	
1/9/2015	01/10/2015	14:36	813622	(SM 9223B) 24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1	
1/9/2015	01/10/2015	14:36	813622	(SM 9223B) 24 Hour Total Coliform Confm (Large Wells)	ND (H3)	PW	1	1	

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1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND (H3)	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1	
EPA 353-351 - Total Nitrogen-Calc									
	01/14/2015	09:35	(EPA 353-351)	Total Nitrogen-Calc	3.6	mg/L	0.2	1	
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	170	mg/L	2	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	01/09/2015	15:18 813570	(EPA 300.0)	Nitrate as Nitrogen by IC	0.98 (H1)	mg/L	0.63	50	
	01/09/2015	15:18 813570	(EPA 300.0)	Nitrite Nitrogen by IC	ND (H1)	mg/L	0.63	50	
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	01/09/2015	15:18 813266	(EPA 300.0)	Chloride	52	mg/L	50	50	
	01/09/2015	15:18 813266	(EPA 300.0)	Sulfate	170	mg/L	25	50	
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)									
	01/22/2015	16:11 816085	(SM4500-PE/EPA 365.1)	Total phosphorus as P	4.4 (B7,Q5)	mg/L	0.1	5	
EPA 351.2 - Total Kjeldahl Nitrogen									
	01/13/2015	14:09 814081	(EPA 351.2)	Kjeldahl Nitrogen	2.6 (Q5)	mg/L	0.2	1	
EPA 350.1 - Ammonia Nitrogen									
	01/14/2015	15:47 814511	(EPA 350.1)	Ammonia Nitrogen	0.60 (Q5)	mg/L	0.1	2	
EPA 524.2 - Volatile Organics by GCMS									
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Total THM	ND	ug/L	0.5	1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	1,2-Dichloroethane-d4	114	%		1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	4-Bromofluorobenzene	94	%		1	
1/14/2015	01/14/2015	23:41 814413	(EPA 524.2)	Toluene-d8	80	%		1	
EPA 624 - Volatile Organics by EPA 624									
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1	

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1/15/2015	01/15/2015	23:54	814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	Benzene	5.6 (Q3)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	Chlorobenzene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	Ethyl benzene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	m,p-Xylenes	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	o-Xylene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Styrene	0.59	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/16/2015	2:50	814741	(EPA 624)	Toluene	2.4 (Q3)	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54	814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Laboratory Data
 Report: 515329

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	1,2-Dichloroethane-d4	113	%		1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	4-Bromofluorobenzene	91	%		1
1/15/2015	01/15/2015	23:54 814741	(EPA 624)	Toluene-d8	104	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/14/2015	11:30 814290	(SM 2320B)	Alkalinity in CaCO3 units	6200	mg/L	100	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/12/2015	01/12/2015	15:14 813769	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7500	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	16:40 813751	(SM4500-HB)	PH (H3=past HT not compliant)	12	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	13:24 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	14:55 813562	(4500P-E/365.1)	Orthophosphate as P	0.51	mg/L	0.25	25
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

AP-2-20150107-DUP (201501090437)

Sampled on 01/07/2015 1510

EPA 200.8 - ICPMS Metals

1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/16/2015	20:03 814906	(EPA 200.8)	Antimony Total ICAP/MS	4.8	ug/L	1	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	3700	ug/L	20	20
1/9/2015	01/15/2015	23:13 814792	(EPA 200.8)	Arsenic Total ICAP/MS	3500	ug/L	20	20
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	40	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Barium Total ICAP/MS	38	ug/L	2	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	10	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Cadmium Total ICAP/MS	11	ug/L	0.5	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Chromium Total ICAP/MS	9.8	ug/L	1	1

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 Manuel Luna
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Samples Received on:
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1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Cobalt Total ICAP/MS	2.3	ug/L	2	1
1/9/2015	01/19/2015	16:23 814692	(EPA 200.8)	Copper dissolved ICAP/MS	35	ug/L	40	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Copper Total ICAP/MS	36	ug/L	2	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	10	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Lead Total ICAP/MS	10	ug/L	0.5	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	2200	ug/L	40	20
1/9/2015	01/15/2015	23:13 814792	(EPA 200.8)	Molybdenum Total ICAP/MS	2200	ug/L	40	20
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	100	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	100	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:32 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	20	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	1800	ug/L	60	20
1/9/2015	01/15/2015	23:13 814792	(EPA 200.8)	Vanadium Total ICAP/MS	1900	ug/L	60	20
1/9/2015	01/14/2015	19:52 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	400	20
1/9/2015	01/15/2015	22:30 814792	(EPA 200.8)	Zinc Total ICAP/MS	28	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/15/2015	23:59 814545	(EPA 200.7)	Calcium Total ICAP	5.3	mg/L	1	1
1/9/2015	01/15/2015	23:59 814545	(EPA 200.7)	Magnesium Total ICAP	3.4	mg/L	0.1	1
1/9/2015	01/19/2015	18:08 814545	(EPA 200.7)	Sodium Total ICAP	3100	mg/L	10	10
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND (H3)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A (H3)			1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H3)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:35	(EPA 353-351)	Total Nitrogen-Calc	3.0	mg/L	0.2	1

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Manuel Luna
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	170	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/09/2015	15:31	813570 (EPA 300.0)	Nitrate as Nitrogen by IC	0.69	mg/L	0.63	50
	01/09/2015	15:31	813570 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.63	50
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/09/2015	15:31	813266 (EPA 300.0)	Chloride	52	mg/L	50	50
	01/09/2015	15:31	813266 (EPA 300.0)	Sulfate	170	mg/L	25	50
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/28/2015	19:04	817189 (SM4500-PE/EPA 365.1)	Total phosphorus as P	3.8 (B4)	mg/L	0.2	10
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	14:10	814081 (EPA 351.2)	Kjeldahl Nitrogen	2.3 (Q5)	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	15:49	814511 (EPA 350.1)	Ammonia Nitrogen	0.32 (Q5)	mg/L	0.1	2
EPA 524.2 - Volatile Organics by GCMS								
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	1,2-Dichloroethane-d4	109	%		1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	4-Bromofluorobenzene	98	%		1
1/14/2015	01/15/2015	0:04	814413 (EPA 524.2)	Toluene-d8	83	%		1
EPA 624 - Volatile Organics by EPA 624								
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/16/2015	0:16	814741 (EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	Benzene	6.1 (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	Chlorobenzene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	Ethyl benzene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	m,p-Xylenes	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	o-Xylene	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Styrene	0.50	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/16/2015	3:12	814741	(EPA 624)	Toluene	2.5 (Q3)	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	1,2-Dichloroethane-d4	105	%		1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	4-Bromofluorobenzene	93	%		1
1/15/2015	01/16/2015	0:16	814741	(EPA 624)	Toluene-d8	97	%		1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 2320B - Alkalinity in CaCO3 units								
	01/14/2015	11:31 814290	(SM 2320B)	Alkalinity in CaCO3 units	6200	mg/L	100	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/12/2015	01/12/2015	15:15 813769	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	7600	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	16:57 813751	(SM4500-HB)	PH (H3=past HT not compliant)	12	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	13:23 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	14:56 813562	(4500P-E/365.1)	Orthophosphate as P	0.52	mg/L	0.25	25
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

AP-3-20150108 (201501090438)

Sampled on 01/08/2015 0800

EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/16/2015	20:04 814906	(EPA 200.8)	Antimony Total ICAP/MS	1.2	ug/L	1	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	16	ug/L	10	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Arsenic Total ICAP/MS	93	ug/L	1	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Barium dissolved ICAP/MS	42	ug/L	20	10
1/9/2015	01/15/2015	23:15 814792	(EPA 200.8)	Barium Total ICAP/MS	1400	ug/L	20	10
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Beryllium Total ICAP/MS	1.9	ug/L	1	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	5	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Cadmium Total ICAP/MS	0.82	ug/L	0.5	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Chromium Total ICAP/MS	58	ug/L	1	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Cobalt Total ICAP/MS	35	ug/L	2	1
1/9/2015	01/23/2015	13:42 815796	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	20	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Copper Total ICAP/MS	170	ug/L	2	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	5	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Lead Total ICAP/MS	41	ug/L	0.5	1
1/9/2015	01/19/2015	16:26 814692	(EPA 200.8)	Molybdenum dissolved ICAP/MS	65	ug/L	20	10

Rounding on totals after summation.
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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Molybdenum Total ICAP/MS	39	ug/L	2	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	50	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Nickel Total ICAP/MS	36	ug/L	5	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	50	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:33 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	10	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Thallium Total ICAP/MS	1.6	ug/L	1	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	30	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Vanadium Total ICAP/MS	190	ug/L	3	1
1/9/2015	01/14/2015	19:59 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	200	10
1/9/2015	01/15/2015	22:32 814792	(EPA 200.8)	Zinc Total ICAP/MS	450	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/19/2015	18:12 814545	(EPA 200.7)	Calcium Total ICAP	450	mg/L	5	5
1/9/2015	01/16/2015	12:03 814545	(EPA 200.7)	Magnesium Total ICAP	57	mg/L	0.1	1
1/9/2015	01/19/2015	18:12 814545	(EPA 200.7)	Sodium Total ICAP	180	mg/L	5	5
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (H1)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (H1)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND (H1)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND (H1)	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A (H1)			1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A (H1)			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	1.6	mg/L	0.2	1
SM2330B - Bicarb.Aikalinity as HCO3,calc								
	01/13/2015	12:09	(SM2330B)	Bicarb.Aikalinity as HCO3calc	240	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/09/2015	20:41 813581	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.25	5
	01/09/2015	20:41 813581	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.25	5
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/09/2015	20:41 813583	(EPA 300.0)	Chloride	180	mg/L	5	5

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	01/09/2015	20:41 813583	(EPA 300.0)	Sulfate	80	mg/L	2.5	5
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:01 816085	(SM4500-PE/EPA 365.1)	Total phosphorus as P	1.6 (B7)	mg/L	0.1	5
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	13:56 814081	(EPA 351.2)	Kjeldahl Nitrogen	1.6	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	14:14 814274	(EPA 350.1)	Ammonia Nitrogen	0.14	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	1,2-Dichloroethane-d4	108	%		1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	4-Bromofluorobenzene	96	%		1
1/15/2015	01/15/2015	23:10 814742	(EPA 524.2)	Toluene-d8	93	%		1
EPA 624 - Volatile Organics by EPA 624								
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	2-Butanone (MEK)	ND (M1)	ug/L	5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Acetone	ND (LE,M1)	ug/L	10	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND (M2)	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	cis-1,3-Dichloropropene	ND (M2)	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	1,2-Dichloroethane-d4	108	%		1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	4-Bromofluorobenzene	96	%		1
1/15/2015	01/15/2015	23:10 814741	(EPA 624)	Toluene-d8	93	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/12/2015	17:23 813749	(SM 2320B)	Alkalinity in CaCO3 units	200	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/13/2015	01/13/2015	15:22 813973	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	820	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	17:23 813751	(SM4500-HB)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	01/09/2015	18:00 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
				4500P-E/365.1 - Orthophosphate as P (OPO4)				
	01/09/2015	13:28 813561	(4500P-E/365.1)	Orthophosphate as P	0.26	mg/L	0.01	1
				SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)				
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
				SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)				
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

EP-1-20150108 (201501090439)

Sampled on 01/08/2015 0930

EPA 200.8 - ICPMS Metals

1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/16/2015	20:05 814906	(EPA 200.8)	Antimony Total ICAP/MS	1.6	ug/L	1	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	12 (MC)	ug/L	1	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Arsenic Total ICAP/MS	28	ug/L	1	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Barium dissolved ICAP/MS	3.3	ug/L	2	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Barium Total ICAP/MS	230	ug/L	2	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Chromium Total ICAP/MS	18	ug/L	1	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Cobalt Total ICAP/MS	7.5	ug/L	2	1
1/9/2015	01/19/2015	16:20 814692	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Copper Total ICAP/MS	42	ug/L	2	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Lead Total ICAP/MS	13	ug/L	0.5	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	7.8	ug/L	2	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Molybdenum Total ICAP/MS	9.2	ug/L	2	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Nickel Total ICAP/MS	12	ug/L	5	1
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:36 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1

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1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1	
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1	
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1	
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Vanadium Total ICAP/MS	35	ug/L	3	1	
1/9/2015	01/14/2015	19:21 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1	
1/9/2015	01/15/2015	22:34 814792	(EPA 200.8)	Zinc Total ICAP/MS	100	ug/L	20	1	
EPA 200.7 - ICP Metals									
1/9/2015	01/16/2015	12:08 814545	(EPA 200.7)	Calcium Total ICAP	160	mg/L	1	1	
1/9/2015	01/16/2015	12:08 814545	(EPA 200.7)	Magnesium Total ICAP	37	mg/L	0.1	1	
1/9/2015	01/16/2015	12:08 814545	(EPA 200.7)	Sodium Total ICAP	64	mg/L	1	1	
SM 9223B - Quantitray Coliforms									
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A			1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1	
EPA 353-351 - Total Nitrogen-Calc									
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	0.60	mg/L	0.2	1	
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	290	mg/L	2	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	01/09/2015	20:53 813581	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1	
	01/09/2015	20:53 813581	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1	
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	01/09/2015	20:53 813583	(EPA 300.0)	Chloride	45	mg/L	1	1	
	01/09/2015	20:53 813583	(EPA 300.0)	Sulfate	31	mg/L	0.5	1	
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)									
	01/22/2015	16:07 816085	(SM4500-PE/EPA 365.1)	Total phosphorus as P	1.4 (B7)	mg/L	0.04	2	
EPA 351.2 - Total Kjeldahl Nitrogen									
	01/13/2015	13:59 814081	(EPA 351.2)	Kjeldahl Nitrogen	0.60	mg/L	0.2	1	
EPA 350.1 - Ammonia Nitrogen									
	01/14/2015	14:17 814274	(EPA 350.1)	Ammonia Nitrogen	0.072	mg/L	0.05	1	

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 524.2 - Volatile Organics by GCMS								
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Bromoform	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Total THM	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	1,2-Dichloroethane-d4	105	%	1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	4-Bromofluorobenzene	101	%	1
1/15/2015	01/15/2015	21:41	814742	(EPA 524.2)	Toluene-d8	100	%	1
EPA 624 - Volatile Organics by EPA 624								
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	2-Hexanone	ND	ug/L	10 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Acetone	ND (LE)	ug/L	10 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Benzene	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Bromoform	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Chloroethane	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5 1
1/15/2015	01/15/2015	21:41	814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5 1

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 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	1,2-Dichloroethane-d4	105	%		1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	4-Bromofluorobenzene	101	%		1
1/15/2015	01/15/2015	21:41 814741	(EPA 624)	Toluene-d8	100	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/12/2015	17:31 813749	(SM 2320B)	Alkalinity in CaCO3 units	240	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/13/2015	01/13/2015	15:23 813973	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	320	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	17:31 813751	(SM4500-HB)	PH (H3=past HT not compliant)	8.4	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	18:04 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	14:52 813562	(4500P-E/365.1)	Orthophosphate as P	1.1	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
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Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
	01/09/2015	17:00	813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

EP-2-20150108 (201501090440)

Sampled on 01/08/2015 1025

EPA 200.8 - ICPMS Metals

1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Antimony Total ICAP/MS	ND (B3)	ug/L	1	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	10	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Arsenic Total ICAP/MS	150	ug/L	1	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Barium dissolved ICAP/MS	5.4	ug/L	2	1
1/9/2015	01/15/2015	23:29	814792	(EPA 200.8)	Barium Total ICAP/MS	6300	ug/L	200	100
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Beryllium Total ICAP/MS	2.9	ug/L	1	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Cadmium Total ICAP/MS	2.6	ug/L	0.5	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Chromium Total ICAP/MS	120	ug/L	1	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Cobalt Total ICAP/MS	64	ug/L	2	1
1/9/2015	01/19/2015	16:29	814692	(EPA 200.8)	Copper dissolved ICAP/MS	6.6	ug/L	2	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Copper Total ICAP/MS	310	ug/L	2	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Lead Total ICAP/MS	160	ug/L	0.5	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	5.9	ug/L	2	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Molybdenum Total ICAP/MS	2.5	ug/L	2	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Nickel Total ICAP/MS	100	ug/L	5	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:37	815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Silver Total ICAP/MS	0.99	ug/L	0.5	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Thallium Total ICAP/MS	3.1	ug/L	1	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Vanadium Total ICAP/MS	120	ug/L	3	1
1/9/2015	01/14/2015	19:49	814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/15/2015	22:36	814792	(EPA 200.8)	Zinc Total ICAP/MS	740	ug/L	20	1

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Samples Received on:
01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 200.7 - ICP Metals								
1/9/2015	01/19/2015	18:16 814545	(EPA 200.7)	Calcium Total ICAP	3000	mg/L	20	20
1/9/2015	01/19/2015	18:16 814545	(EPA 200.7)	Magnesium Total ICAP	600	mg/L	2	20
1/9/2015	01/16/2015	12:13 814545	(EPA 200.7)	Sodium Total ICAP	89	mg/L	1	1
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	1.0	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	100	MPN/100 mL	100	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	P			1
EPA 353-351 - Total Nitrogen-Calc								
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	0.75	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	170	mg/L	2	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	01/09/2015	21:06 813581	(EPA 300.0)	Nitrate as Nitrogen by IC	0.25	mg/L	0.1	1
	01/09/2015	21:06 813581	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	01/09/2015	21:06 813583	(EPA 300.0)	Chloride	20	mg/L	1	1
	01/09/2015	21:06 813583	(EPA 300.0)	Sulfate	32	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	01/22/2015	16:08 816085	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.88 (B7)	mg/L	0.04	2
EPA 351.2 - Total Kjeldahl Nitrogen								
	01/13/2015	14:03 814081	(EPA 351.2)	Kjeldahl Nitrogen	0.50	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	01/14/2015	14:21 814274	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Total THM	ND	ug/L	0.5	1

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	1,2-Dichloroethane-d4	101	%		1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	4-Bromofluorobenzene	101	%		1
1/15/2015	01/15/2015	22:03 814742	(EPA 524.2)	Toluene-d8	99	%		1
EPA 624 - Volatile Organics by EPA 624								
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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 Olancho, CA 93549

Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	1,2-Dichloroethane-d4	101	%		1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	4-Bromofluorobenzene	101	%		1
1/15/2015	01/15/2015	22:03 814741	(EPA 624)	Toluene-d8	99	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/12/2015	17:42 813749	(SM 2320B)	Alkalinity in CaCO3 units	140	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/13/2015	01/13/2015	16:07 813975	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	320	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	17:42 813751	(SM4500-HB)	PH (H3=past HT not compliant)	8.2	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	18:03 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	13:27 813561	(4500P-E/365.1)	Orthophosphate as P	0.70	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
CT-1-20150108 (201501090441)								
EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Antimony Total ICAP/MS	ND (B3)	ug/L	1	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	1.7	ug/L	1	1

Sampled on 01/08/2015 1235

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Crystal Geyser Roxane
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Arsenic Total ICAP/MS	50	ug/L	1	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Barium dissolved ICAP/MS	33	ug/L	2	1
1/9/2015	01/15/2015	23:31 814792	(EPA 200.8)	Barium Total ICAP/MS	950	ug/L	40	20
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Beryllium Total ICAP/MS	2.3	ug/L	1	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Chromium Total ICAP/MS	70	ug/L	1	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Cobalt Total ICAP/MS	34	ug/L	2	1
1/9/2015	01/15/2015	13:41 814640	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Copper Total ICAP/MS	82	ug/L	2	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Lead Total ICAP/MS	34	ug/L	0.5	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	24	ug/L	2	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Molybdenum Total ICAP/MS	13	ug/L	2	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Nickel Total ICAP/MS	20	ug/L	5	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:35 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Vanadium Total ICAP/MS	140	ug/L	3	1
1/9/2015	01/14/2015	19:12 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/15/2015	22:38 814792	(EPA 200.8)	Zinc Total ICAP/MS	400	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/19/2015	18:21 814545	(EPA 200.7)	Calcium Total ICAP	51	mg/L	5	5
1/9/2015	01/19/2015	18:21 814545	(EPA 200.7)	Magnesium Total ICAP	29	mg/L	0.5	5
1/9/2015	01/16/2015	12:17 814545	(EPA 200.7)	Sodium Total ICAP	25	mg/L	1	1
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confrm (Large Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confrm (Small Wells)	ND	PW	1	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<100	MPN/100 mL	100	1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A			1	
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1	
EPA 353-351 - Total Nitrogen-Calc									
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	1.4	mg/L	0.2	1	
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	92	mg/L	2	1	
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	01/09/2015	21:19 813581	(EPA 300.0)	Nitrate as Nitrogen by IC	0.18	mg/L	0.1	1	
	01/09/2015	21:19 813581	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1	
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	01/09/2015	21:19 813583	(EPA 300.0)	Chloride	ND	mg/L	1	1	
	01/09/2015	21:19 813583	(EPA 300.0)	Sulfate	3.8	mg/L	0.5	1	
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)									
	01/13/2015	21:11 814190	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.63	mg/L	0.02	1	
EPA 351.2 - Total Kjeldahl Nitrogen									
	01/13/2015	14:04 814081	(EPA 351.2)	Kjeldahl Nitrogen	1.2	mg/L	0.2	1	
EPA 350.1 - Ammonia Nitrogen									
	01/14/2015	14:22 814274	(EPA 350.1)	Ammonia Nitrogen	0.28	mg/L	0.05	1	
EPA 524.2 - Volatile Organics by GCMS									
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Total THM	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	1,2-Dichloroethane-d4	98	%		1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	4-Bromofluorobenzene	97	%		1	
1/15/2015	01/15/2015	22:26 814742	(EPA 524.2)	Toluene-d8	101	%		1	
EPA 624 - Volatile Organics by EPA 624									
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1	
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1	

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1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	1,2-Dichloroethane-d4	98	%		1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	4-Bromofluorobenzene	97	%		1
1/15/2015	01/15/2015	22:26 814741	(EPA 624)	Toluene-d8	101	%		1
				SM 2320B - Alkalinity in CaCO3 units				
	01/12/2015	17:51 813749	(SM 2320B)	Alkalinity in CaCO3 units	76	mg/L	2	1
				E160.1/SM2540C - Total Dissolved Solids (TDS)				
1/13/2015	01/13/2015	16:08 813975	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	160	mg/L	10	1
				SM4500-HB - PH (H3=past HT not compliant)				
	01/12/2015	17:51 813751	(SM4500-HB)	PH (H3=past HT not compliant)	8.1	Units	0.1	1
				SM 5540C/EPA 425.1 - Surfactants				
	01/09/2015	18:02 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
				4500P-E/365.1 - Orthophosphate as P (OPO4)				
	01/09/2015	14:51 813562	(4500P-E/365.1)	Orthophosphate as P	1.5	mg/L	0.05	5
				SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)				
	01/09/2015	17:00 813602	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	0.11 (H5)	mg/L	0.1	1
				SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)				
	01/09/2015	17:00 813603	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

QCEB-4-20150108 (201501090442)

Sampled on 01/08/2015 1300

EPA 200.8 - ICPMS Metals								
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/15/2015	13:50 814640	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
1/9/2015	01/20/2015	21:38 815373	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/13/2015	21:02 814030	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
1/9/2015	01/14/2015	19:43 814106	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
1/9/2015	01/27/2015	13:50 816515	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
1/9/2015	01/12/2015	20:16 813794	(EPA 200.7)	Calcium Total ICAP	ND	mg/L	1	1
1/9/2015	01/12/2015	20:16 813794	(EPA 200.7)	Magnesium Total ICAP	ND	mg/L	0.1	1
1/9/2015	01/12/2015	20:16 813794	(EPA 200.7)	Sodium Total ICAP	ND	mg/L	1	1
SM 9223B - Quantitray Coliforms								
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria	<1	MPN/100 mL	1	1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
1/9/2015	01/10/2015	14:36 813622	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1

EPA 353-351 - Total Nitrogen-Calc

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 Manuel Luna
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	01/14/2015	09:17	(EPA 353-351)	Total Nitrogen-Calc	ND	mg/L	0.2	1
	SM2330B - Bicarb.Alkalinity as HCO3,calc							
	01/13/2015	12:09	(SM2330B)	Bicarb.Alkalinity as HCO3calc	2.7	mg/L	2	1
	EPA 300.0 - Nitrate, Nitrite by EPA 300.0							
	01/09/2015	21:32	813581 (EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	01/09/2015	21:32	813581 (EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
	EPA 300.0 - Chloride, Sulfate by EPA 300.0							
	01/09/2015	21:32	813583 (EPA 300.0)	Chloride	ND	mg/L	1	1
	01/09/2015	21:32	813583 (EPA 300.0)	Sulfate	ND	mg/L	0.5	1
	SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)							
	01/13/2015	21:12	814190 (SM4500-PE/EPA 365.1)	Total phosphorus as P	ND	mg/L	0.02	1
	EPA 351.2 - Total Kjeldahl Nitrogen							
	01/13/2015	14:05	814081 (EPA 351.2)	Kjeldahl Nitrogen	ND	mg/L	0.2	1
	EPA 350.1 - Ammonia Nitrogen							
	01/14/2015	14:24	814274 (EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
	EPA 524.2 - Volatile Organics by GCMS							
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Chloroform (Trichloromethane)	0.70	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Total THM	0.70	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	1,2-Dichloroethane-d4	104	%		1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	4-Bromofluorobenzene	96	%		1
1/15/2015	01/15/2015	22:48	814742 (EPA 524.2)	Toluene-d8	100	%		1
	EPA 624 - Volatile Organics by EPA 624							
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	2-Hexanone	ND	ug/L	10	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/15/2015	22:48	814741 (EPA 624)	Acrolein (Screen)	ND	ug/L	25	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Chloroform (Trichloromethane)	0.70	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	1,2-Dichloroethane-d4	104	%		1
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	4-Bromofluorobenzene	96	%		1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	22:48 814741	(EPA 624)	Toluene-d8	100	%		1
SM 2320B - Alkalinity in CaCO3 units								
	01/12/2015	18:00 813749	(SM 2320B)	Alkalinity in CaCO3 units	2.2	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
1/13/2015	01/13/2015	16:21 813975	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
SM4500-HB - PH (H3=past HT not compliant)								
	01/12/2015	18:00 813751	(SM4500-HB)	PH (H3=past HT not compliant)	6.0	Units	0.1	1
SM 5540C/EPA 425.1 - Surfactants								
	01/09/2015	18:01 813350	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	01/09/2015	13:26 813561	(4500P-E/365.1)	Orthophosphate as P	ND	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	15:00 813599	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	01/09/2015	15:00 813597	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

QCTB-2-20150108 (201501090443)

Sampled on 01/08/2015 1325

EPA 524.2 - Volatile Organics by GCMS								
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	1,2-Dichloroethane-d4	104	%		1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	4-Bromofluorobenzene	98	%		1
1/15/2015	01/15/2015	21:18 814742	(EPA 524.2)	Toluene-d8	101	%		1
EPA 624 - Volatile Organics by EPA 624								
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	2-Hexanone	ND	ug/L	10	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
 Report: 515329

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Acetone	ND (LE)	ug/L	10	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Bromoform	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Styrene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Toluene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
Report: 515329

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
01/09/2015 1144

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	1,2-Dichloroethane-d4	104	%		1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	4-Bromofluorobenzene	98	%		1
1/15/2015	01/15/2015	21:18 814741	(EPA 624)	Toluene-d8	101	%		1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Folder Comments

(SM4500P-E/365.1 - OPO4) 201501090434, 0437

Samples have elevated pH. Spoke with George on 1/09/15. These are GW samples from near a WW pond. Deb checked pH of TDS container, also high pH. Native pH ~ 13. Proceed with testing. DEB 010915

Flags Legend:

- B3 - Target analyte detected in calibration blank at or above the method reporting limit.
- B4 - Target analyte detected in blank at or above method acceptance criteria.
- B7 - Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
- H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.
- H3 - Sample was received and/ or analysis requested past holding time.
- H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
- L1 - The associated blank spike recovery was above laboratory acceptance limits.
- LE - MRL Check recovery was above laboratory acceptance limits.
- LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.
- M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.
- M2 - Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- MC - Matrix spike recovery was high; the associated blank spike recovery was acceptable. MS/MSD RPD met acceptance criteria.
- Q3 - Sample received with improper chemical preservation.
- Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.

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Crystal Geysler Roxane

QC Ref # 813266 - Chloride, Sulfate by EPA 300.0

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP

Analysis Date: 01/09/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813350 - Surfactants

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813561 - Orthophosphate as P (OPO4)

201501090433 FP-1-20150107
201501090438 AP-3-20150108
201501090440 EP-2-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813562 - Orthophosphate as P (OPO4)

201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090439 EP-1-20150108
201501090441 CT-1-20150108

Analysis Date: 01/09/2015

Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8
Analyzed by: MIA8

QC Ref # 813570 - Nitrate, Nitrite by EPA 300.0

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP

Analysis Date: 01/09/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813581 - Nitrate, Nitrite by EPA 300.0

201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813583 - Chloride, Sulfate by EPA 300.0

201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 813597 - Free Chlorine Residual (H3=past HT not complian

201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: NJR

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Crystal Geysler Roxane

QC Ref # 813599 - Total Chlorine Residual (H3=past HT not complian

201501090442 QCEB-4-20150108

Analysis Date: 01/09/2015

Analyzed by: NJR

QC Ref # 813602 - Total Chlorine Residual (H3=past HT not complian

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108

Analysis Date: 01/09/2015

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 813603 - Free Chlorine Residual (H3=past HT not complian

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108

Analysis Date: 01/09/2015

Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR
Analyzed by: NJR

QC Ref # 813622 - Quantitray Coliforms

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/10/2015

Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE
Analyzed by: WAE

QC Ref # 813749 - Alkalinity in CaCO3 units

201501090433 FP-1-20150107
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/12/2015

Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4

QC Ref # 813751 - PH (H3=past HT not compliant)

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/12/2015

Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4
Analyzed by: 6Q4

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Crystal Geysler Roxane

QC Ref # 813769 - Total Dissolved Solids (TDS)

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP

Analysis Date: 01/12/2015

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

QC Ref # 813794 - ICP Metals

201501090442 QCEB-4-20150108

Analysis Date: 01/12/2015

Analyzed by: NINA

QC Ref # 813971 - ICPMS Metals

201501090433 FP-1-20150107

Analysis Date: 01/12/2015

Analyzed by: AZS

QC Ref # 813973 - Total Dissolved Solids (TDS)

201501090438 AP-3-20150108
201501090439 EP-1-20150108

Analysis Date: 01/13/2015

Analyzed by: JRF
Analyzed by: JRF

QC Ref # 813975 - Total Dissolved Solids (TDS)

201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/13/2015

Analyzed by: JRF
Analyzed by: JRF
Analyzed by: JRF

QC Ref # 813982 - ICPMS Metals

201501090433 FP-1-20150107
201501090433 FP-1-20150107

Analysis Date: 01/12/2015

Analyzed by: AZS
Analyzed by: AZS

QC Ref # 814030 - ICPMS Metals

201501090442 QCEB-4-20150108

Analysis Date: 01/13/2015

Analyzed by: AZS

QC Ref # 814081 - Total Kjeldahl Nitrogen

201501090433 FP-1-20150107
201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/13/2015

Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS
Analyzed by: KXS

QC Ref # 814105 - ICPMS Metals

201501090433 FP-1-20150107

Analysis Date: 01/14/2015

Analyzed by: SXX

QC Ref # 814106 - ICPMS Metals

201501090434 AP-2-20150107
201501090437 AP-2-20150107-DUP
201501090438 AP-3-20150108
201501090439 EP-1-20150108
201501090440 EP-2-20150108
201501090441 CT-1-20150108
201501090442 QCEB-4-20150108

Analysis Date: 01/14/2015

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 814190 - Total phosphorus as P (T-P)

Analysis Date: 01/13/2015

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Crystal Geysler Roxane

201501090441	CT-1-20150108	Analyzed by: KXS
201501090442	QCEB-4-20150108	Analyzed by: KXS
QC Ref # 814274 - Ammonia Nitrogen		Analysis Date: 01/14/2015
201501090433	FP-1-20150107	Analyzed by: MYH
201501090438	AP-3-20150108	Analyzed by: MYH
201501090439	EP-1-20150108	Analyzed by: MYH
201501090440	EP-2-20150108	Analyzed by: MYH
201501090441	CT-1-20150108	Analyzed by: MYH
201501090442	QCEB-4-20150108	Analyzed by: MYH
QC Ref # 814290 - Alkalinity in CaCO3 units		Analysis Date: 01/14/2015
201501090434	AP-2-20150107	Analyzed by: 6Q4
201501090437	AP-2-20150107-DUP	Analyzed by: 6Q4
QC Ref # 814413 - Volatile Organics by GCMS		Analysis Date: 01/14/2015
201501090434	AP-2-20150107	Analyzed by: KAM
201501090437	AP-2-20150107-DUP	Analyzed by: KAM
QC Ref # 814447 - Volatile Organics by GCMS		Analysis Date: 01/14/2015
201501090433	FP-1-20150107	Analyzed by: KCP
QC Ref # 814454 - Volatile Organics by EPA 624		Analysis Date: 01/14/2015
201501090433	FP-1-20150107	Analyzed by: KCP
QC Ref # 814511 - Ammonia Nitrogen		Analysis Date: 01/14/2015
201501090434	AP-2-20150107	Analyzed by: MYH
201501090437	AP-2-20150107-DUP	Analyzed by: MYH
QC Ref # 814545 - ICP Metals		Analysis Date: 01/15/2015
201501090433	FP-1-20150107	Analyzed by: NINA
201501090434	AP-2-20150107	Analyzed by: NINA
201501090434	AP-2-20150107	Analyzed by: NINA
201501090437	AP-2-20150107-DUP	Analyzed by: NINA
201501090437	AP-2-20150107-DUP	Analyzed by: NINA
201501090438	AP-3-20150108	Analyzed by: NINA
201501090438	AP-3-20150108	Analyzed by: NINA
201501090439	EP-1-20150108	Analyzed by: NINA
201501090440	EP-2-20150108	Analyzed by: NINA
201501090440	EP-2-20150108	Analyzed by: NINA
201501090441	CT-1-20150108	Analyzed by: NINA
201501090441	CT-1-20150108	Analyzed by: NINA
QC Ref # 814640 - ICPMS Metals		Analysis Date: 01/15/2015
201501090441	CT-1-20150108	Analyzed by: SXX
201501090442	QCEB-4-20150108	Analyzed by: SXX
QC Ref # 814692 - ICPMS Metals		Analysis Date: 01/19/2015
201501090433	FP-1-20150107	Analyzed by: SXX
201501090437	AP-2-20150107-DUP	Analyzed by: SXX

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Crystal Geysler Roxane

201501090438	AP-3-20150108	Analyzed by: SXX
201501090439	EP-1-20150108	Analyzed by: SXX
201501090440	EP-2-20150108	Analyzed by: SXX

QC Ref # 814741 - Volatile Organics by EPA 624

Analysis Date: 01/15/2015

201501090434	AP-2-20150107	Analyzed by: KAM
201501090434	AP-2-20150107	Analyzed by: KAM
201501090437	AP-2-20150107-DUP	Analyzed by: KAM
201501090437	AP-2-20150107-DUP	Analyzed by: KAM
201501090438	AP-3-20150108	Analyzed by: KAM
201501090439	EP-1-20150108	Analyzed by: KAM
201501090440	EP-2-20150108	Analyzed by: KAM
201501090441	CT-1-20150108	Analyzed by: KAM
201501090442	QCEB-4-20150108	Analyzed by: KAM
201501090443	QCTB-2-20150108	Analyzed by: KAM

QC Ref # 814742 - Volatile Organics by GCMS

Analysis Date: 01/15/2015

201501090438	AP-3-20150108	Analyzed by: KAM
201501090439	EP-1-20150108	Analyzed by: KAM
201501090440	EP-2-20150108	Analyzed by: KAM
201501090441	CT-1-20150108	Analyzed by: KAM
201501090442	QCEB-4-20150108	Analyzed by: KAM
201501090443	QCTB-2-20150108	Analyzed by: KAM

QC Ref # 814792 - ICPMS Metals

Analysis Date: 01/15/2015

201501090434	AP-2-20150107	Analyzed by: AZS
201501090434	AP-2-20150107	Analyzed by: AZS
201501090437	AP-2-20150107-DUP	Analyzed by: AZS
201501090437	AP-2-20150107-DUP	Analyzed by: AZS
201501090438	AP-3-20150108	Analyzed by: AZS
201501090438	AP-3-20150108	Analyzed by: AZS
201501090439	EP-1-20150108	Analyzed by: AZS
201501090440	EP-2-20150108	Analyzed by: AZS
201501090440	EP-2-20150108	Analyzed by: AZS
201501090441	CT-1-20150108	Analyzed by: AZS
201501090441	CT-1-20150108	Analyzed by: AZS

QC Ref # 814906 - ICPMS Metals

Analysis Date: 01/16/2015

201501090434	AP-2-20150107	Analyzed by: AZS
201501090437	AP-2-20150107-DUP	Analyzed by: AZS
201501090438	AP-3-20150108	Analyzed by: AZS
201501090439	EP-1-20150108	Analyzed by: AZS

QC Ref # 815373 - ICPMS Metals

Analysis Date: 01/20/2015

201501090433	FP-1-20150107	Analyzed by: AZS
201501090434	AP-2-20150107	Analyzed by: AZS
201501090437	AP-2-20150107-DUP	Analyzed by: AZS
201501090438	AP-3-20150108	Analyzed by: AZS
201501090439	EP-1-20150108	Analyzed by: AZS

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201501090440	EP-2-20150108	Analyzed by: AZS
201501090441	CT-1-20150108	Analyzed by: AZS
201501090442	QCEB-4-20150108	Analyzed by: AZS

QC Ref # 815460 - ICPMS Metals

201501090434	AP-2-20150107	Analyzed by: SXX
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Analysis Date: 01/21/2015

QC Ref # 815796 - ICPMS Metals

201501090438	AP-3-20150108	Analyzed by: SXX
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Analysis Date: 01/23/2015

QC Ref # 816085 - Total phosphorus as P (T-P)

201501090433	FP-1-20150107	Analyzed by: KXS
201501090434	AP-2-20150107	Analyzed by: KXS
201501090438	AP-3-20150108	Analyzed by: KXS
201501090439	EP-1-20150108	Analyzed by: KXS
201501090440	EP-2-20150108	Analyzed by: KXS

Analysis Date: 01/22/2015

QC Ref # 816515 - ICPMS Metals

201501090442	QCEB-4-20150108	Analyzed by: SXX
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Analysis Date: 01/27/2015

QC Ref # 817189 - Total phosphorus as P (T-P)

201501090437	AP-2-20150107-DUP	Analyzed by: MYH
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Analysis Date: 01/28/2015

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813266 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 01/09/2015			
LCS1	Chloride		25	24.1	mg/L	96	(90-110)		
LCS2	Chloride		25	24.2	mg/L	97	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.422	mg/L	84	(50-150)		
MS_201501090016	Chloride	ND	13	12.2	mg/L	95	(80-120)		
MSD_201501090016	Chloride	ND	13	12.2	mg/L	96	(80-120)	20	0.0
LCS1	Sulfate		50	50.9	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.0	mg/L	102	(90-110)	20	0.20
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.951	mg/L	95	(50-150)		
MRLW	Sulfate		0.25	0.243	mg/L	97	(50-150)		
MS_201501090016	Sulfate	ND	25	25.8	mg/L	103	(80-120)		
MS_201501090266	Sulfate	23	25	48.8	mg/L	105	(80-120)		
MSD_201501090016	Sulfate	ND	25	25.9	mg/L	104	(80-120)	20	0.39
MSD_201501090266	Sulfate	23	25	49.1	mg/L	106	(80-120)	20	0.61
QC Ref# 813350 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 01/09/2015			
LCS1	Surfactants		0.2	0.218	mg/L	109	(90-110)		
LCS2	Surfactants		0.2	0.219	mg/L	110	(90-110)	20	0.46
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0563	mg/L	113	(50-150)		
MS_201501080596	Surfactants	0.051	0.2	0.242	mg/L	96	(80-120)		
MSD_201501080596	Surfactants	0.051	0.2	0.248	mg/L	99	(80-120)	20	2.5
QC Ref# 813561 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 01/09/2015			
LCS1	Orthophosphate as P		0.25	0.257	mg/L	103	(90-110)		
LCS2	Orthophosphate as P		0.25	0.263	mg/L	105	(90-110)	20	2.3
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.00900	mg/L	90	(50-150)		
MS_201501090433	Orthophosphate as P	0.71	0.5	1.26	mg/L	111	(90-110)		
MSD_201501090433	Orthophosphate as P	0.71	0.5	1.26	mg/L	111	(90-110)	20	0.0
QC Ref# 813562 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 01/09/2015			
LCS1	Orthophosphate as P		0.25	0.258	mg/L	103	(90-110)		
LCS2	Orthophosphate as P		0.25	0.260	mg/L	104	(90-110)	20	0.77
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0110	mg/L	110	(50-150)		
MS_201501120001	Orthophosphate as P	5.9	0.5	6.38	mg/L	20	(90-110)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501120001	Orthophosphate as P	5.9	0.5	7.17	mg/L	<u>51</u>	(90-110)	20	12
QC Ref# 813570 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 01/09/2015			
LCS1	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0474	mg/L	95	(50-150)		
MRLLLW	Nitrate as Nitrogen by IC		0.013	0.0123	mg/L	98	(50-150)		
MS_201501090016	Nitrate as Nitrogen by IC	ND	1.3	1.22	mg/L	98	(80-120)		
MS_201501090266	Nitrate as Nitrogen by IC	1.8	1.3	3.18	mg/L	111	(80-120)		
MSD_201501090016	Nitrate as Nitrogen by IC	ND	1.3	1.23	mg/L	98	(80-120)	20	0.82
MSD_201501090266	Nitrate as Nitrogen by IC	1.8	1.3	3.20	mg/L	112	(80-120)	20	0.63
LCS1	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0475	mg/L	95	(50-150)		
MRLLLW	Nitrite Nitrogen by IC		0.013	0.0128	mg/L	102	(50-150)		
MS_201501090016	Nitrite Nitrogen by IC	ND	0.5	0.511	mg/L	102	(80-120)		
MS_201501090266	Nitrite Nitrogen by IC	ND	0.5	0.329	mg/L	<u>66</u>	(80-120)		
MSD_201501090016	Nitrite Nitrogen by IC	ND	0.5	0.516	mg/L	103	(80-120)	20	0.97
MSD_201501090266	Nitrite Nitrogen by IC	ND	0.5	0.332	mg/L	<u>67</u>	(80-120)	20	0.91
QC Ref# 813581 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 01/09/2015			
LCS1	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.43	mg/L	97	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0487	mg/L	97	(50-150)		
MS_201501090463	Nitrate as Nitrogen by IC	ND	1.3	1.23	mg/L	99	(80-120)		
MS_201501090530	Nitrate as Nitrogen by IC	0.56	1.3	1.80	mg/L	99	(80-120)		
MSD_201501090463	Nitrate as Nitrogen by IC	ND	1.3	1.24	mg/L	99	(80-120)	20	0.81
MSD_201501090530	Nitrate as Nitrogen by IC	0.56	1.3	1.81	mg/L	100	(80-120)	20	0.55
LCS1	Nitrite Nitrogen by IC		1.0	0.999	mg/L	100	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.00	mg/L	101	(90-110)	20	1.1
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0455	mg/L	91	(50-150)		
MS_201501090463	Nitrite Nitrogen by IC	ND	0.5	0.491	mg/L	98	(80-120)		
MS_201501090530	Nitrite Nitrogen by IC	ND	0.5	0.514	mg/L	103	(80-120)		
MSD_201501090463	Nitrite Nitrogen by IC	ND	0.5	0.491	mg/L	98	(80-120)	20	0.0
MSD_201501090530	Nitrite Nitrogen by IC	ND	0.5	0.516	mg/L	103	(80-120)	20	0.39

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813583 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 01/09/2015			
LCS1	Chloride		25	24.1	mg/L	96	(90-110)		
LCS2	Chloride		25	24.1	mg/L	97	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.425	mg/L	85	(50-150)		
MS_201501090463	Chloride	8.6	13	21.3	mg/L	101	(80-120)		
MS_201501090530	Chloride	ND	13	12.7	mg/L	96	(80-120)		
MSD_201501090463	Chloride	8.6	13	21.4	mg/L	102	(80-120)	20	0.47
MSD_201501090530	Chloride	ND	13	12.8	mg/L	96	(80-120)	20	0.78
LCS1	Sulfate		50	51.2	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.3	mg/L	103	(90-110)	20	0.20
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.920	mg/L	92	(50-150)		
MRL_LW	Sulfate		0.25	0.244	mg/L	98	(50-150)		
MS_201501090463	Sulfate	ND	25	25.9	mg/L	104	(80-120)		
MS_201501090530	Sulfate	5.6	25	31.6	mg/L	104	(80-120)		
MSD_201501090463	Sulfate	ND	25	26.0	mg/L	104	(80-120)	20	0.39
MSD_201501090530	Sulfate	5.6	25	31.9	mg/L	105	(80-120)	20	0.95
QC Ref# 813597 - Free Chlorine Residual (H3=past HT not compliant) by SM						Analysis Date: 01/09/2015			
4500CL-G/HACH									
LCS1	Free Chlorine Residual		1.0	0.920	mg/L	92	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)	20	2.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 813599 - Total Chlorine Residual (H3=past HT not compliant) by SM						Analysis Date: 01/09/2015			
4500-CL G									
LCS1	Total Chlorine Residual		1.0	0.980	mg/L	98	(85-115)		
LCS2	Total Chlorine Residual		1.0	0.990	mg/L	99	(85-115)	20	1.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 813602 - Total Chlorine Residual (H3=past HT not compliant) by SM						Analysis Date: 01/09/2015			
4500-CL G									
LCS1	Total Chlorine Residual		1.0	0.970	mg/L	97	(85-115)		
LCS2	Total Chlorine Residual		1.0	0.980	mg/L	98	(85-115)	20	1.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.100	mg/L	100	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 813603 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH						Analysis Date: 01/09/2015			
LCS1	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.930	mg/L	93	(85-115)	20	1.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 813749 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 01/12/2015			
LCS1	Alkalinity in CaCO3 units		100	99.7	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)	20	0.20
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.04	mg/L	102	(50-150)		
MS_201501090266	Alkalinity in CaCO3 units	87	100	187	mg/L	100	(80-120)		
MS_201501090270	Alkalinity in CaCO3 units	110	100	213	mg/L	101	(80-120)		
MSD_201501090266	Alkalinity in CaCO3 units	87	100	187	mg/L	100	(80-120)	20	0.0
MSD_201501090270	Alkalinity in CaCO3 units	110	100	212	mg/L	100	(80-120)	20	0.47
QC Ref# 813751 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 01/12/2015			
DUP_201501090266	PH (H3=past HT not compliant)	7.6	0.01	7.59	Units		(0-20)	20	0.26
DUP_201501090270	PH (H3=past HT not compliant)	7.6	0.01	7.65	Units		(0-20)	20	0.26
LCS1	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.02	Units	100	(98-102)	20	0.0
QC Ref# 813769 - Total Dissolved Solids (TDS) by E160.1/SM2540C						Analysis Date: 01/12/2015			
DUP_201501080020	Total Dissolved Solid (TDS)	340		340	mg/L		(0-20)	20	0.59
DUP_201501090421	Total Dissolved Solid (TDS)	580		578	mg/L		(0-20)	20	0.69
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	698	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	14.0	mg/L	140	(50-150)		
QC Ref# 813794 - ICP Metals by EPA 200.7						Analysis Date: 01/12/2015			
LCS1	Calcium Total ICAP		50	49.8	mg/L	100	(85-115)		
LCS2	Calcium Total ICAP		50	50.0	mg/L	100	(85-115)	20	0.60
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.921	mg/L	92	(50-150)		
MS_201501080676	Calcium Total ICAP	ND	50	48.7	mg/L	97	(70-130)		
MS2_201501090016	Calcium Total ICAP	ND	50	48.0	mg/L	96	(70-130)		
MSD_201501080676	Calcium Total ICAP	ND	50	47.6	mg/L	95	(70-130)	20	2.3
MSD2_201501090016	Calcium Total ICAP	ND	50	48.4	mg/L	97	(70-130)	20	0.62
LCS1	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Magnesium Total ICAP		20	20.5	mg/L	103	(85-115)	20	0.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0926	mg/L	93	(50-150)		
MS_201501080676	Magnesium Total ICAP	ND	20	20.3	mg/L	101	(70-130)		
MS2_201501090016	Magnesium Total ICAP	ND	20	19.9	mg/L	99	(70-130)		
MSD_201501080676	Magnesium Total ICAP	ND	20	19.9	mg/L	99	(70-130)	20	2.0
MSD2_201501090016	Magnesium Total ICAP	ND	20	20.1	mg/L	101	(70-130)	20	1.0
LCS1	Sodium Total ICAP		50	50.3	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	50.6	mg/L	101	(85-115)	20	0.60
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.999	mg/L	100	(50-150)		
MS_201501080676	Sodium Total ICAP	ND	50	50.3	mg/L	100	(70-130)		
MS2_201501090016	Sodium Total ICAP	1.8	50	50.4	mg/L	97	(70-130)		
MSD_201501080676	Sodium Total ICAP	ND	50	49.3	mg/L	98	(70-130)	20	2.0
MSD2_201501090016	Sodium Total ICAP	1.8	50	51.4	mg/L	99	(70-130)	20	2.0

QC Ref# 813971 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Beryllium Total ICAP/MS		5.0	5.14	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.07	ug/L	101	(85-115)	20	1.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.983	ug/L	98	(50-150)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.72	ug/L	94	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)		
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.61	ug/L	92	(70-130)	20	2.4
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.74	ug/L	95	(70-130)	20	0.0

QC Ref# 813973 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 01/13/2015

DUP_201501080768	Total Dissolved Solid (TDS)	520		506	mg/L		(0-20)	20	3.5
DUP_201501080790	Total Dissolved Solid (TDS)	650		652	mg/L		(0-20)	20	0.0
LCS1	Total Dissolved Solid (TDS)		175	162	mg/L	93	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	628	mg/L	90	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 813975 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 01/13/2015

DUP_201501090613	Total Dissolved Solid (TDS)	200		202	mg/L		(0-20)	20	1
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Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP_201501090656	Total Dissolved Solid (TDS)	420		422	mg/L		(0-20)	20	1.4
LCS1	Total Dissolved Solid (TDS)		175	162	mg/L	93	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	648	mg/L	93	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	8.00	mg/L	80	(50-150)		

QC Ref# 813982 - ICPMS Metals by EPA 200.8

Analysis Date: 01/12/2015

LCS1	Antimony Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.28	ug/L	128	(50-150)		
MS_201501070720	Antimony Total ICAP/MS	ND	50	48.1	ug/L	94	(70-130)		
MS2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)		
MSD_201501070720	Antimony Total ICAP/MS	ND	50	51.0	ug/L	100	(70-130)	20	5.8
MSD2_201501080159	Antimony Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.884	ug/L	88	(50-150)		
MS_201501070720	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	99	(70-130)		
MS2_201501080159	Arsenic Total ICAP/MS	4.2	20	24.0	ug/L	99	(70-130)		
MSD_201501070720	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	104	(70-130)	20	5.2
MSD2_201501080159	Arsenic Total ICAP/MS	4.2	20	23.9	ug/L	98	(70-130)	20	0.42
LCS1	Barium Total ICAP/MS		100	94.5	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	92.8	ug/L	93	(85-115)	20	1.8
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.93	ug/L	96	(50-150)		
MS_201501070720	Barium Total ICAP/MS	30	100	121	ug/L	91	(70-130)		
MS2_201501080159	Barium Total ICAP/MS	170	100	263	ug/L	96	(70-130)		
MSD_201501070720	Barium Total ICAP/MS	30	100	126	ug/L	96	(70-130)	20	4.0
MSD2_201501080159	Barium Total ICAP/MS	170	100	264	ug/L	98	(70-130)	20	0.38
LCS1	Beryllium Total ICAP/MS		5.0	5.09	ug/L	102	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.24	ug/L	105	(85-115)	20	2.9
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	107	(50-150)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		
MS_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.66	ug/L	93	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		
MS2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD_201501070720	Beryllium Total ICAP/MS	ND	5.0	4.95	ug/L	99	(70-130)	20	6.0
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
MSD2_201501080159	Beryllium Total ICAP/MS	ND	5.0	4.80	ug/L	96	(70-130)	20	3.1
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201501070720	Cadmium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)		
MS2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MSD_201501070720	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)	20	4.5
MSD2_201501080159	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.0
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201501070720	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501070720	Chromium Total ICAP/MS	ND	100	107	ug/L	106	(70-130)	20	4.8
MSD2_201501080159	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	99.3	ug/L	99	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.70
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201501070720	Cobalt Total ICAP/MS	ND	100	98.9	ug/L	99	(70-130)		
MS2_201501080159	Cobalt Total ICAP/MS	ND	100	97.0	ug/L	97	(70-130)		
MSD_201501070720	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	2.1
MSD2_201501080159	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)	20	0.31
LCS1	Copper Total ICAP/MS		100	97.5	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	1.3
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.93	ug/L	97	(50-150)		
MS_201501070720	Copper Total ICAP/MS	34	100	126	ug/L	91	(70-130)		
MS2_201501080159	Copper Total ICAP/MS	2	100	90.6	ug/L	89	(70-130)		
MSD_201501070720	Copper Total ICAP/MS	34	100	128	ug/L	93	(70-130)	20	1.6
MSD2_201501080159	Copper Total ICAP/MS	2	100	90.7	ug/L	89	(70-130)	20	0.11
LCS1	Lead Total ICAP/MS		20	20.1	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.99

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.521	ug/L	104	(50-150)		
MS_201501070720	Lead Total ICAP/MS	1.8	20	19.6	ug/L	89	(70-130)		
MS2_201501080159	Lead Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Lead Total ICAP/MS	1.8	20	20.7	ug/L	95	(70-130)	20	5.5
MSD2_201501080159	Lead Total ICAP/MS	ND	20	22.0	ug/L	108	(70-130)	20	0.46
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201501070720	Molybdenum Total ICAP/MS	7.4	100	120	ug/L	113	(70-130)		
MS2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	112	(70-130)		
MSD_201501070720	Molybdenum Total ICAP/MS	7.4	100	124	ug/L	117	(70-130)	20	3.3
MSD2_201501080159	Molybdenum Total ICAP/MS	3.9	100	116	ug/L	113	(70-130)	20	0.86
LCS1	Nickel Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.7	ug/L	101	(85-115)	20	0.59
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.96	ug/L	99	(50-150)		
MS_201501070720	Nickel Total ICAP/MS	ND	50	50.7	ug/L	95	(70-130)		
MS2_201501080159	Nickel Total ICAP/MS	ND	50	48.4	ug/L	94	(70-130)		
MSD_201501070720	Nickel Total ICAP/MS	ND	50	52.7	ug/L	99	(70-130)	20	3.9
MSD2_201501080159	Nickel Total ICAP/MS	ND	50	48.0	ug/L	94	(70-130)	20	0.83
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	4.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.05	ug/L	101	(50-150)		
MS_201501070720	Selenium Total ICAP/MS	ND	20	19.9	ug/L	96	(70-130)		
MS2_201501080159	Selenium Total ICAP/MS	ND	20	19.4	ug/L	93	(70-130)		
MSD_201501070720	Selenium Total ICAP/MS	ND	20	20.4	ug/L	98	(70-130)	20	2.5
MSD2_201501080159	Selenium Total ICAP/MS	ND	20	20.2	ug/L	98	(70-130)	20	4.0
LCS1	Silver Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	1.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.507	ug/L	101	(50-150)		
MS_201501070720	Silver Total ICAP/MS	ND	50	44.4	ug/L	88	(70-130)		
MS2_201501080159	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)		
MSD_201501070720	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)	20	4.0
MSD2_201501080159	Silver Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)	20	0.22

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.9	ug/L	99	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501070720	Thallium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MS2_201501080159	Thallium Total ICAP/MS	ND	20	21.9	ug/L	108	(70-130)		
MSD_201501070720	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	5.4
MSD2_201501080159	Thallium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)	20	0.46
LCS1	Vanadium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.97	ug/L	99	(50-150)		
MS_201501070720	Vanadium Total ICAP/MS	ND	100	105	ug/L	103	(70-130)		
MS2_201501080159	Vanadium Total ICAP/MS	ND	100	103	ug/L	102	(70-130)		
MSD_201501070720	Vanadium Total ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501080159	Vanadium Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.98
LCS1	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	105	(85-115)	20	0.96
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	23.8	ug/L	119	(50-150)		
MS_201501070720	Zinc Total ICAP/MS	130	100	230	ug/L	102	(70-130)		
MS2_201501080159	Zinc Total ICAP/MS	ND	100	105	ug/L	90	(70-130)		
MSD_201501070720	Zinc Total ICAP/MS	130	100	233	ug/L	105	(70-130)	20	1.3
MSD2_201501080159	Zinc Total ICAP/MS	ND	100	106	ug/L	91	(70-130)	20	0.95

QC Ref# 814030 - ICPMS Metals by EPA 200.8

Analysis Date: 01/13/2015

LCS1	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.6	ug/L	97	(85-115)	20	2.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.498	ug/L	100	(50-150)		
MS_201501060462	Silver Total ICAP/MS	ND	50	9.23	ug/L	<u>18</u>	(70-130)		
MS2_201501050313	Silver Total ICAP/MS	ND	50	42.7	ug/L	85	(70-130)		
MSD_201501060462	Silver Total ICAP/MS	ND	50	20.5	ug/L	<u>41</u>	(70-130)	20	<u>76</u>
MSD2_201501050313	Silver Total ICAP/MS	ND	50	40.5	ug/L	81	(70-130)	20	5.3

QC Ref# 814081 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 01/13/2015

LCS1	Kjeldahl Nitrogen		4.0	3.89	mg/L	97	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.82	mg/L	96	(90-110)	20	1.8
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Kjeldahl Nitrogen		0.2	0.215	mg/L	108	(50-150)		
MS_201412260078	Kjeldahl Nitrogen	0.35	4.0	4.25	mg/L	97	(90-110)		
MS_201501090439	Kjeldahl Nitrogen	0.60	4.0	4.85	mg/L	106	(90-110)		
MSD_201412260078	Kjeldahl Nitrogen	0.35	4.0	4.22	mg/L	97	(90-110)	10	0.71
MSD_201501090439	Kjeldahl Nitrogen	0.60	4.0	4.57	mg/L	99	(90-110)	10	5.9

QC Ref# 814105 - ICPMS Metals by EPA 200.8

Analysis Date: 01/14/2015

LCS1	Antimony dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony dissolved ICAP/MS	ND	50	53.2	ug/L	106	(70-130)		
MS2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony dissolved ICAP/MS	ND	50	55.4	ug/L	110	(70-130)	20	3.9
MSD2_201501100030	Antimony dissolved ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Antimony Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)	20	2.6
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090433	Antimony Total ICAP/MS	ND	50	53.2	ug/L	107	(70-130)		
MS2_201501100030	Antimony Total ICAP/MS		50	54.4	ug/L	109	(70-130)		
MSD_201501090433	Antimony Total ICAP/MS	ND	50	55.4	ug/L	111	(70-130)	20	3.9
MSD2_201501100030	Antimony Total ICAP/MS		50	54.7	ug/L	109	(70-130)	20	0.37
LCS1	Arsenic dissolved ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.0	ug/L	107	(70-130)		
MS2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic dissolved ICAP/MS	5.6	20	27.8	ug/L	111	(70-130)	20	2.9
MSD2_201501100030	Arsenic dissolved ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501090433	Arsenic Total ICAP/MS	69	20	27.0	ug/L	107	(70-130)		
MS2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201501090433	Arsenic Total ICAP/MS	69	20	27.8	ug/L	139	(70-130)	20	2.9
MSD2_201501100030	Arsenic Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Barium dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium dissolved ICAP/MS	40	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium dissolved ICAP/MS	40	100	151	ug/L	111	(70-130)	20	3.4
MSD2_201501100030	Barium dissolved ICAP/MS	7.5	100	116	ug/L	109	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.19	ug/L	109	(50-150)		
MS_201501090433	Barium Total ICAP/MS	860	100	146	ug/L	106	(70-130)		
MS2_201501100030	Barium Total ICAP/MS		100	116	ug/L	108	(70-130)		
MSD_201501090433	Barium Total ICAP/MS	860	100	151	ug/L	<u>151</u>	(70-130)	20	3.4
MSD2_201501100030	Barium Total ICAP/MS		100	116	ug/L	109	(70-130)	20	0.0
LCS1	Beryllium dissolved ICAP/MS		5.0	5.13	ug/L	103	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium dissolved ICAP/MS	ND	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium dissolved ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Beryllium Total ICAP/MS		5.0	5.13	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.05	ug/L	101	(85-115)	20	1.6
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090433	Beryllium Total ICAP/MS	2.0	5.0	5.79	ug/L	116	(70-130)		
MS2_201501100030	Beryllium Total ICAP/MS		5.0	5.79	ug/L	116	(70-130)		
MSD_201501090433	Beryllium Total ICAP/MS	2.0	5.0	6.07	ug/L	121	(70-130)	20	4.7
MSD2_201501100030	Beryllium Total ICAP/MS		5.0	5.82	ug/L	116	(70-130)	20	0.52
LCS1	Cadmium dissolved ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090433	Cadmium dissolved ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	2.8
MSD2_201501100030	Cadmium dissolved ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.571	ug/L	114	(50-150)		
MS_201501090433	Cadmium Total ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MS2_201501100030	Cadmium Total ICAP/MS		20	21.6	ug/L	108	(70-130)		
MSD_201501090433	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	110	(70-130)	20	2.8
MSD2_201501100030	Cadmium Total ICAP/MS		20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium dissolved ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium dissolved ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	4.8
MSD2_201501100030	Chromium dissolved ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201501090433	Chromium Total ICAP/MS	54	100	102	ug/L	101	(70-130)		
MS2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201501090433	Chromium Total ICAP/MS	54	100	107	ug/L	107	(70-130)	20	4.8
MSD2_201501100030	Chromium Total ICAP/MS	ND	100	104	ug/L	103	(70-130)	20	0.96
LCS1	Cobalt dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.14	ug/L	107	(50-150)		
MS_201501090433	Cobalt dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt dissolved ICAP/MS	ND	100	112	ug/L	112	(70-130)	20	11
MSD2_201501100030	Cobalt dissolved ICAP/MS	1.4	100	101	ug/L	100	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.14	ug/L	107	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090433	Cobalt Total ICAP/MS	33	100	100	ug/L	100	(70-130)		
MS2_201501100030	Cobalt Total ICAP/MS		100	101	ug/L	100	(70-130)		
MSD_201501090433	Cobalt Total ICAP/MS	33	100	103	ug/L	103	(70-130)	20	3.0
MSD2_201501100030	Cobalt Total ICAP/MS		100	101	ug/L	100	(70-130)	20	0.0
LCS1	Lead dissolved ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead dissolved ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead dissolved ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead dissolved ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_201501090433	Lead Total ICAP/MS	42	20	19.9	ug/L	99	(70-130)		
MS2_201501100030	Lead Total ICAP/MS	0.69	20	20.6	ug/L	103	(70-130)		
MSD_201501090433	Lead Total ICAP/MS	42	20	20.7	ug/L	104	(70-130)	20	3.9
MSD2_201501100030	Lead Total ICAP/MS	0.69	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Molybdenum dissolved ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum dissolved ICAP/MS	30	100	133	ug/L	103	(70-130)		
MS2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum dissolved ICAP/MS	30	100	137	ug/L	108	(70-130)	20	3.0
MSD2_201501100030	Molybdenum dissolved ICAP/MS	14	100	120	ug/L	106	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	98.8	ug/L	99	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.2
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501090433	Molybdenum Total ICAP/MS	13	100	133	ug/L	103	(70-130)		
MS2_201501100030	Molybdenum Total ICAP/MS		100	120	ug/L	106	(70-130)		
MSD_201501090433	Molybdenum Total ICAP/MS	13	100	137	ug/L	<u>137</u>	(70-130)	20	3.0
MSD2_201501100030	Molybdenum Total ICAP/MS		100	120	ug/L	106	(70-130)	20	0.0
LCS1	Nickel dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel dissolved ICAP/MS	ND	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel dissolved ICAP/MS	ND	50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel dissolved ICAP/MS	ND	50	49.0	ug/L	97	(70-130)	20	2.9
MSD2_201501100030	Nickel dissolved ICAP/MS	ND	50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	1.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201501090433	Nickel Total ICAP/MS	28	50	47.6	ug/L	95	(70-130)		
MS2_201501100030	Nickel Total ICAP/MS		50	48.6	ug/L	95	(70-130)		
MSD_201501090433	Nickel Total ICAP/MS	28	50	49.0	ug/L	98	(70-130)	20	2.9
MSD2_201501100030	Nickel Total ICAP/MS		50	47.4	ug/L	93	(70-130)	20	2.5
LCS1	Selenium dissolved ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium dissolved ICAP/MS	ND	20	21.8	ug/L	102	(70-130)		
MS2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium dissolved ICAP/MS	ND	20	22.8	ug/L	107	(70-130)	20	4.5
MSD2_201501100030	Selenium dissolved ICAP/MS	ND	20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Selenium Total ICAP/MS		20	22.1	ug/L	111	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.3	ug/L	106	(85-115)	20	3.7
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.62	ug/L	112	(50-150)		
MS_201501090433	Selenium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)		
MS2_201501100030	Selenium Total ICAP/MS		20	23.0	ug/L	112	(70-130)		
MSD_201501090433	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	4.5
MSD2_201501100030	Selenium Total ICAP/MS		20	23.4	ug/L	114	(70-130)	20	1.7
LCS1	Thallium dissolved ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium dissolved ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501100030	Thallium dissolved ICAP/MS	ND	20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium dissolved ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium dissolved ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	2.9

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	1.5
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501090433	Thallium Total ICAP/MS	1.9	20	20.2	ug/L	101	(70-130)		
MS2_201501100030	Thallium Total ICAP/MS		20	21.3	ug/L	106	(70-130)		
MSD_201501090433	Thallium Total ICAP/MS	1.9	20	21.0	ug/L	105	(70-130)	20	4.4
MSD2_201501100030	Thallium Total ICAP/MS		20	20.7	ug/L	102	(70-130)	20	2.9
LCS1	Vanadium Dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Dissolved ICAP/MS	ND	100	108	ug/L	106	(70-130)	20	2.8
MSD2_201501100030	Vanadium Dissolved ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
LCS1	Vanadium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.16	ug/L	105	(50-150)		
MS_201501090433	Vanadium Total ICAP/MS	270	100	105	ug/L	105	(70-130)		
MS2_201501100030	Vanadium Total ICAP/MS		100	106	ug/L	106	(70-130)		
MSD_201501090433	Vanadium Total ICAP/MS	270	100	108	ug/L	108	(70-130)	20	2.8
MSD2_201501100030	Vanadium Total ICAP/MS		100	104	ug/L	104	(70-130)	20	1.9
LCS1	Zinc dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc dissolved ICAP/MS	ND	100	108	ug/L	104	(70-130)		
MS2_201501100030	Zinc dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501090433	Zinc dissolved ICAP/MS	ND	100	112	ug/L	108	(70-130)	20	3.6
MSD2_201501100030	Zinc dissolved ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.95
LCS1	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	101	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.3	ug/L	102	(50-150)		
MS_201501090433	Zinc Total ICAP/MS	420	100	108	ug/L	108	(70-130)		
MS2_201501100030	Zinc Total ICAP/MS		100	106	ug/L	106	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501090433	Zinc Total ICAP/MS	420	100	112	ug/L	112	(70-130)	20	3.6
MSD2_201501100030	Zinc Total ICAP/MS		100	105	ug/L	105	(70-130)	20	0.95
QC Ref# 814106 - ICPMS Metals by EPA 200.8						Analysis Date: 01/14/2015			
LCS1	Antimony dissolved ICAP/MS		50	55.2	ug/L	110	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	54.2	ug/L	108	(85-115)	20	1.8
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090441	Antimony dissolved ICAP/MS	ND	50	49.0	ug/L	97	(70-130)		
MS2_201501090439	Antimony dissolved ICAP/MS	ND	50	49.8	ug/L	98	(70-130)		
MSD_201501090441	Antimony dissolved ICAP/MS	ND	50	47.9	ug/L	95	(70-130)	20	2.3
MSD2_201501090439	Antimony dissolved ICAP/MS	ND	50	50.1	ug/L	99	(70-130)	20	0.60
LCS1	Antimony Total ICAP/MS		50	55.2	ug/L	110	(85-115)		
LCS2	Antimony Total ICAP/MS		50	54.2	ug/L	108	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501090441	Antimony Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)		
MS2_201501090439	Antimony Total ICAP/MS	1.6	50	49.8	ug/L	100	(70-130)		
MSD_201501090441	Antimony Total ICAP/MS	ND	50	47.9	ug/L	96	(70-130)	20	2.3
MSD2_201501090439	Antimony Total ICAP/MS	1.6	50	50.1	ug/L	100	(70-130)	20	0.60
LCS1	Arsenic dissolved ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	22.2	ug/L	111	(85-115)	20	1.8
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090441	Arsenic dissolved ICAP/MS	1.7	20	22.4	ug/L	103	(70-130)		
MS2_201501090439	Arsenic dissolved ICAP/MS	12	20	33.6	ug/L	108	(70-130)		
MSD_201501090441	Arsenic dissolved ICAP/MS	1.7	20	22.0	ug/L	102	(70-130)	20	1.8
MSD2_201501090439	Arsenic dissolved ICAP/MS	12	20	33.9	ug/L	109	(70-130)	20	0.89
LCS1	Arsenic Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	22.2	ug/L	111	(85-115)	20	1.8
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501090441	Arsenic Total ICAP/MS	50	20	22.4	ug/L	112	(70-130)		
MS2_201501090439	Arsenic Total ICAP/MS	28	20	33.6	ug/L	168	(70-130)		
MSD_201501090441	Arsenic Total ICAP/MS	50	20	22.0	ug/L	110	(70-130)	20	1.8
MSD2_201501090439	Arsenic Total ICAP/MS	28	20	33.9	ug/L	169	(70-130)	20	0.89
LCS1	Barium dissolved ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	108	ug/L	109	(85-115)	20	0.91
MBLK	Barium dissolved ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Barium dissolved ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201501090441	Barium dissolved ICAP/MS	33	100	137	ug/L	104	(70-130)		
MS2_201501090439	Barium dissolved ICAP/MS	3.3	100	106	ug/L	103	(70-130)		
MSD_201501090441	Barium dissolved ICAP/MS	33	100	134	ug/L	101	(70-130)	20	2.2
MSD2_201501090439	Barium dissolved ICAP/MS	3.3	100	107	ug/L	103	(70-130)	20	0.94
LCS1	Barium Total ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Barium Total ICAP/MS		100	108	ug/L	109	(85-115)	20	0.91
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201501090441	Barium Total ICAP/MS	950	100	137	ug/L	<u>137</u>	(70-130)		
MS2_201501090439	Barium Total ICAP/MS	230	100	106	ug/L	106	(70-130)		
MSD_201501090441	Barium Total ICAP/MS	950	100	134	ug/L	<u>134</u>	(70-130)	20	2.2
MSD2_201501090439	Barium Total ICAP/MS	230	100	107	ug/L	107	(70-130)	20	0.94
LCS1	Beryllium dissolved ICAP/MS		5.0	5.68	ug/L	114	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.43	ug/L	109	(85-115)	20	4.5
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501090441	Beryllium dissolved ICAP/MS	ND	5.0	5.28	ug/L	105	(70-130)		
MS2_201501090439	Beryllium dissolved ICAP/MS	ND	5.0	5.52	ug/L	110	(70-130)		
MSD_201501090441	Beryllium dissolved ICAP/MS	ND	5.0	5.45	ug/L	108	(70-130)	20	3.2
MSD2_201501090439	Beryllium dissolved ICAP/MS	ND	5.0	5.56	ug/L	111	(70-130)	20	0.72
LCS1	Beryllium Total ICAP/MS		5.0	5.68	ug/L	114	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.43	ug/L	109	(85-115)	20	4.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.28	ug/L	106	(70-130)		
MS2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.52	ug/L	110	(70-130)		
MSD_201501090441	Beryllium Total ICAP/MS	2.3	5.0	5.45	ug/L	109	(70-130)	20	3.2
MSD2_201501090439	Beryllium Total ICAP/MS	ND	5.0	5.56	ug/L	111	(70-130)	20	0.72
LCS1	Cadmium dissolved ICAP/MS		20	21.8	ug/L	109	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	21.5	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.563	ug/L	113	(50-150)		
MS_201501090441	Cadmium dissolved ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Cadmium dissolved ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201501090441	Cadmium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201501090439	Cadmium dissolved ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	3.5
LCS1	Cadmium Total ICAP/MS		20	21.8	ug/L	109	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Cadmium Total ICAP/MS		20	21.5	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.563	ug/L	113	(50-150)		
MS_201501090441	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)		
MSD_201501090441	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201501090439	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	3.5
LCS1	Chromium dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	0.990	ug/L	99	(50-150)		
MS_201501090441	Chromium dissolved ICAP/MS	ND	100	104	ug/L	103	(70-130)		
MS2_201501090439	Chromium dissolved ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201501090441	Chromium dissolved ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	2.9
MSD2_201501090439	Chromium dissolved ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Chromium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.990	ug/L	99	(50-150)		
MS_201501090441	Chromium Total ICAP/MS	70	100	104	ug/L	103	(70-130)		
MS2_201501090439	Chromium Total ICAP/MS	18	100	104	ug/L	104	(70-130)		
MSD_201501090441	Chromium Total ICAP/MS	70	100	101	ug/L	101	(70-130)	20	2.9
MSD2_201501090439	Chromium Total ICAP/MS	18	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Cobalt dissolved ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201501090441	Cobalt dissolved ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201501090439	Cobalt dissolved ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501090441	Cobalt dissolved ICAP/MS	ND	100	99.5	ug/L	100	(70-130)	20	1.5
MSD2_201501090439	Cobalt dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.0
LCS1	Cobalt Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)	20	3.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201501090441	Cobalt Total ICAP/MS	34	100	101	ug/L	101	(70-130)		
MS2_201501090439	Cobalt Total ICAP/MS	7.5	100	102	ug/L	102	(70-130)		
MSD_201501090441	Cobalt Total ICAP/MS	34	100	99.5	ug/L	100	(70-130)	20	1.5

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501090439	Cobalt Total ICAP/MS	7.5	100	100	ug/L	100	(70-130)	20	2.0
LCS1	Lead dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead dissolved ICAP/MS	ND	20	20.1	ug/L	99	(70-130)		
MS2_201501090439	Lead dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501090441	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	2.5
MSD2_201501090439	Lead dissolved ICAP/MS	ND	20	19.6	ug/L	97	(70-130)	20	0.51
LCS1	Lead Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.490	ug/L	98	(50-150)		
MS_201501090441	Lead Total ICAP/MS	34	20	20.1	ug/L	100	(70-130)		
MS2_201501090439	Lead Total ICAP/MS	13	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Lead Total ICAP/MS	34	20	19.6	ug/L	98	(70-130)	20	2.5
MSD2_201501090439	Lead Total ICAP/MS	13	20	19.6	ug/L	98	(70-130)	20	0.51
LCS1	Molybdenum dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.7
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501090441	Molybdenum dissolved ICAP/MS	24	100	130	ug/L	106	(70-130)		
MS2_201501090439	Molybdenum dissolved ICAP/MS	7.8	100	114	ug/L	106	(70-130)		
MSD_201501090441	Molybdenum dissolved ICAP/MS	24	100	127	ug/L	102	(70-130)	20	2.3
MSD2_201501090439	Molybdenum dissolved ICAP/MS	7.8	100	113	ug/L	105	(70-130)	20	0.88
LCS1	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	2.7
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501090441	Molybdenum Total ICAP/MS	13	100	130	ug/L	130	(70-130)		
MS2_201501090439	Molybdenum Total ICAP/MS	9.2	100	114	ug/L	114	(70-130)		
MSD_201501090441	Molybdenum Total ICAP/MS	13	100	127	ug/L	127	(70-130)	20	2.3
MSD2_201501090439	Molybdenum Total ICAP/MS	9.2	100	113	ug/L	113	(70-130)	20	0.88
LCS1	Nickel dissolved ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	47.9	ug/L	96	(85-115)	20	3.7
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.58	ug/L	92	(50-150)		
MS_201501090441	Nickel dissolved ICAP/MS	ND	50	50.1	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501090439	Nickel dissolved ICAP/MS	ND	50	49.6	ug/L	99	(70-130)		
MSD_201501090441	Nickel dissolved ICAP/MS	ND	50	48.7	ug/L	97	(70-130)	20	2.8
MSD2_201501090439	Nickel dissolved ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	0.81
LCS1	Nickel Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	47.9	ug/L	96	(85-115)	20	3.7
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.58	ug/L	92	(50-150)		
MS_201501090441	Nickel Total ICAP/MS	20	50	50.1	ug/L	100	(70-130)		
MS2_201501090439	Nickel Total ICAP/MS	12	50	49.6	ug/L	99	(70-130)		
MSD_201501090441	Nickel Total ICAP/MS	20	50	48.7	ug/L	97	(70-130)	20	2.8
MSD2_201501090439	Nickel Total ICAP/MS	12	50	49.2	ug/L	98	(70-130)	20	0.81
LCS1	Selenium dissolved ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.6
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	7.00	ug/L	140	(50-150)		
MS_201501090441	Selenium dissolved ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201501090439	Selenium dissolved ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501090441	Selenium dissolved ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	4.9
MSD2_201501090439	Selenium dissolved ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.9
LCS1	Selenium Total ICAP/MS		20	22.6	ug/L	113	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.8	ug/L	109	(85-115)	20	3.6
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	7.00	ug/L	140	(50-150)		
MS_201501090441	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MS2_201501090439	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201501090441	Selenium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	4.9
MSD2_201501090439	Selenium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.9
LCS1	Thallium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	0.999	ug/L	100	(50-150)		
MS_201501090441	Thallium dissolved ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501090439	Thallium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501090441	Thallium dissolved ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD2_201501090439	Thallium dissolved ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	1.0
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Thallium Total ICAP/MS		1.0	0.999	ug/L	100	(50-150)		
MS_201501090441	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501090439	Thallium Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)		
MSD_201501090441	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD2_201501090439	Thallium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	1.0
LCS1	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	1.9
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201501090441	Vanadium Dissolved ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MS2_201501090439	Vanadium Dissolved ICAP/MS	ND	100	109	ug/L	107	(70-130)		
MSD_201501090441	Vanadium Dissolved ICAP/MS	ND	100	103	ug/L	102	(70-130)	20	2.9
MSD2_201501090439	Vanadium Dissolved ICAP/MS	ND	100	105	ug/L	103	(70-130)	20	3.7
LCS1	Vanadium Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	1.9
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.02	ug/L	101	(50-150)		
MS_201501090441	Vanadium Total ICAP/MS	140	100	106	ug/L	106	(70-130)		
MS2_201501090439	Vanadium Total ICAP/MS	35	100	109	ug/L	109	(70-130)		
MSD_201501090441	Vanadium Total ICAP/MS	140	100	103	ug/L	103	(70-130)	20	2.9
MSD2_201501090439	Vanadium Total ICAP/MS	35	100	105	ug/L	105	(70-130)	20	3.7
LCS1	Zinc dissolved ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201501090441	Zinc dissolved ICAP/MS	ND	100	104	ug/L	102	(70-130)		
MS2_201501090439	Zinc dissolved ICAP/MS	ND	100	109	ug/L	104	(70-130)		
MSD_201501090441	Zinc dissolved ICAP/MS	ND	100	110	ug/L	108	(70-130)	20	4.7
MSD2_201501090439	Zinc dissolved ICAP/MS	ND	100	107	ug/L	102	(70-130)	20	1.9
LCS1	Zinc Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.1	ug/L	105	(50-150)		
MS_201501090441	Zinc Total ICAP/MS	400	100	104	ug/L	105	(70-130)		
MS2_201501090439	Zinc Total ICAP/MS	100	100	109	ug/L	109	(70-130)		
MSD_201501090441	Zinc Total ICAP/MS	400	100	110	ug/L	110	(70-130)	20	4.7
MSD2_201501090439	Zinc Total ICAP/MS	100	100	107	ug/L	107	(70-130)	20	1.9

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 814190 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 01/13/2015			
LCS1	Total phosphorus as P		0.4	0.372	mg/L	93	(90-110)		
LCS2	Total phosphorus as P		0.4	0.375	mg/L	94	(90-110)	20	0.80
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0206	mg/L	103	(50-150)		
MS_201501080220	Total phosphorus as P	0.076	0.4	0.423	mg/L	87	(90-110)		
MS_201501080675	Total phosphorus as P	0.12	0.4	0.503	mg/L	95	(90-110)		
MSD_201501080220	Total phosphorus as P	0.076	0.4	0.436	mg/L	90	(90-110)	20	3.0
MSD_201501080675	Total phosphorus as P	0.12	0.4	0.502	mg/L	94	(90-110)	20	0.20
QC Ref# 814274 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 01/14/2015			
LCS1	Ammonia Nitrogen		0.5	0.522	mg/L	104	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.518	mg/L	104	(90-110)	20	0.77
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0495	mg/L	99	(53-118)		
MS_201501080493	Ammonia Nitrogen	0.12	0.5	0.574	mg/L	90	(90-110)		
MS_201501090439	Ammonia Nitrogen	0.072	0.5	0.554	mg/L	96	(90-110)		
MSD_201501080493	Ammonia Nitrogen	0.12	0.5	0.574	mg/L	90	(90-110)	20	0.0
MSD_201501090439	Ammonia Nitrogen	0.072	0.5	0.552	mg/L	96	(90-110)	20	0.36
QC Ref# 814290 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 01/14/2015			
LCS3	Alkalinity in CaCO3 units		1000	1000	mg/L	100	(90-110)		
LCS4	Alkalinity in CaCO3 units		1000	950	mg/L	95	(90-110)	20	5.1
MBLK	Alkalinity in CaCO3 units			8.33	mg/L				
MRLHI	Alkalinity in CaCO3 units		100	100	mg/L	100	(50-150)		
MS_201501150279	Alkalinity in CaCO3 units	200	100	300	mg/L	100	(80-120)		
MSD_201501150279	Alkalinity in CaCO3 units	200	100	300	mg/L	100	(80-120)	20	0.0
QC Ref# 814413 - Volatile Organics by GCMS by EPA 524.2						Analysis Date: 01/14/2015			
LCS1	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			99.8	%	100	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			112	%	112	(70-130)		
LCS1	4-Bromofluorobenzene (S)			92.4	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.2	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			94.6	%	95	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
LCS1	Bromodichloromethane		5.0	5.31	ug/L	106	(70-130)		
LCS2	Bromodichloromethane		5.0	5.10	ug/L	102	(70-130)	20	4.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.650	ug/L	130	(50-150)		
LCS1	Bromoform		5.0	5.49	ug/L	110	(70-130)		
LCS2	Bromoform		5.0	5.32	ug/L	106	(70-130)	20	3.1
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.60	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.83	ug/L	117	(70-130)	20	4.0
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.19	ug/L	104	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.09	ug/L	102	(70-130)	20	2.0
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Toluene-d8 (S)			92.6	%	93	(70-130)		
LCS2	Toluene-d8 (S)			97.2	%	97	(70-130)		
MBLK	Toluene-d8 (S)			87.4	%	87	(70-130)		
MRL_CHK	Toluene-d8 (S)			85.4	%	85	(70-130)		

QC Ref# 814447 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/14/2015

LCS1	1,2-Dichloroethane-d4 (S)			96.6	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
LCS1	4-Bromofluorobenzene (S)			91.6	%	92	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
LCS1	Bromodichloromethane		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromodichloromethane		5.0	4.58	ug/L	92	(70-130)	20	0.88
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoform		5.0	3.76	ug/L	75	(70-130)		
LCS2	Bromoform		5.0	3.61	ug/L	72	(70-130)	20	4.1
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.40	ug/L	108	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chlorodibromomethane		5.0	5.57	ug/L	111	(70-130)	20	3.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.32	ug/L	86	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.39	ug/L	88	(70-130)	20	1.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS2	Toluene-d8 (S)			106	%	106	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		

QC Ref# 814454 - Volatile Organics by EPA 624 by EPA 624

Analysis Date: 01/14/2015

LCS1	1,1,1-Trichloroethane		20	21.8	ug/L	109	(79-121)		
LCS2	1,1,1-Trichloroethane		20	19.8	ug/L	99	(79-121)	20	9.6
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	1,1,1-Trichloroethane	ND	10	10.0	ug/L	100	(75-144)		
MSD_201501150316	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(75-144)	20	3.0
LCS1	1,1,2,2-Tetrachloroethane		20	18.9	ug/L	94	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	18.7	ug/L	94	(77-126)	20	1.1
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.600	ug/L	120	(50-150)		
MS_201501150316	1,1,2,2-Tetrachloroethane	ND	10	9.14	ug/L	91	(79-130)		
MSD_201501150316	1,1,2,2-Tetrachloroethane	ND	10	9.51	ug/L	95	(79-130)	20	4.0
LCS1	1,1,2-Trichloroethane		20	19.8	ug/L	99	(79-116)		
LCS2	1,1,2-Trichloroethane		20	18.3	ug/L	92	(79-116)	20	8.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	1,1,2-Trichloroethane	ND	10	8.74	ug/L	87	(76-129)		
MSD_201501150316	1,1,2-Trichloroethane	ND	10	9.09	ug/L	91	(76-129)	20	3.9
LCS1	1,1-Dichloroethane		20	19.9	ug/L	100	(77-129)		
LCS2	1,1-Dichloroethane		20	18.4	ug/L	92	(77-129)	20	7.8
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201501150316	1,1-Dichloroethane	ND	10	9.59	ug/L	96	(70-146)		
MSD_201501150316	1,1-Dichloroethane	ND	10	9.89	ug/L	99	(70-146)	20	3.1

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1-Dichloroethylene		20	19.0	ug/L	95	(77-139)		
LCS2	1,1-Dichloroethylene		20	17.6	ug/L	88	(77-139)	20	8.2
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
MS_201501150316	1,1-Dichloroethylene	ND	10	9.83	ug/L	98	(75-134)		
MSD_201501150316	1,1-Dichloroethylene	ND	10	10.1	ug/L	101	(75-134)	20	2.7
LCS1	1,2-Dichloroethane		20	19.6	ug/L	98	(81-122)		
LCS2	1,2-Dichloroethane		20	17.7	ug/L	88	(81-122)	20	10
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501150316	1,2-Dichloroethane	ND	10	8.98	ug/L	90	(75-135)		
MSD_201501150316	1,2-Dichloroethane	ND	10	9.53	ug/L	95	(75-135)	20	5.9
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			93.8	%	94	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
MS_201501150316	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201501150316	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
LCS1	1,2-Dichloropropane		20	20.4	ug/L	102	(77-118)		
LCS2	1,2-Dichloropropane		20	18.5	ug/L	92	(77-118)	20	9.8
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		
MS_201501150316	1,2-Dichloropropane	ND	10	9.09	ug/L	91	(73-132)		
MSD_201501150316	1,2-Dichloropropane	ND	10	9.36	ug/L	94	(73-132)	20	2.9
LCS1	2-Butanone (MEK)		200	209	ug/L	104	(65-122)		
LCS2	2-Butanone (MEK)		200	188	ug/L	94	(65-122)	20	11
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.10	ug/L	102	(50-150)		
MS_201501150316	2-Butanone (MEK)	ND	100	87.4	ug/L	87	(59-129)		
MSD_201501150316	2-Butanone (MEK)	ND	100	95.6	ug/L	95	(59-129)	20	9.0
LCS1	2-Hexanone		200	198	ug/L	99	(72-128)		
LCS2	2-Hexanone		200	185	ug/L	93	(72-128)	20	6.8
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.14	ug/L	83	(50-150)		
MS_201501150316	2-Hexanone	ND	100	106	ug/L	106	(71-134)		
MSD_201501150316	2-Hexanone	ND	100	113	ug/L	113	(71-134)	20	6.4
LCS1	4-Bromofluorobenzene (S)			97.0	%	97	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	4-Bromofluorobenzene (S)			92.2	%	92	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLW	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MS_201501150316	4-Bromofluorobenzene (S)			89.2	%	89	(70-130)		
MSD_201501150316	4-Bromofluorobenzene (S)			93.8	%	94	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	250	ug/L	125	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	228	ug/L	114	(76-130)	20	8.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.00	ug/L	80	(50-150)		
MS_201501150316	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	115	(75-136)		
MSD_201501150316	4-Methyl-2-Pentanone (MIBK)	ND	100	120	ug/L	120	(75-136)	20	4.3
LCS1	Acetone		200	207	ug/L	103	(47-117)		
LCS2	Acetone		200	192	ug/L	96	(47-117)	20	7.5
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.89	ug/L	118	(50-150)		
MS_201501150316	Acetone	ND	100	101	ug/L	101	(37-119)		
MSD_201501150316	Acetone	ND	100	104	ug/L	104	(37-119)	20	2.9
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	19.9	ug/L	100	(60-156)		
LCS2	Benzene		20	18.3	ug/L	92	(60-156)	20	8.4
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Benzene	ND	10	9.42	ug/L	94	(76-133)		
MSD_201501150316	Benzene	ND	10	9.94	ug/L	99	(76-133)	20	5.4
LCS1	Bromodichloromethane		20	23.0	ug/L	115	(77-113)		
LCS2	Bromodichloromethane		20	21.1	ug/L	106	(77-113)	20	9.1
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201501150316	Bromodichloromethane	ND	10	9.66	ug/L	97	(77-130)		
MSD_201501150316	Bromodichloromethane	ND	10	10.5	ug/L	105	(77-130)	20	8.3
LCS1	Bromoform		20	23.0	ug/L	115	(54-134)		
LCS2	Bromoform		20	20.7	ug/L	104	(54-134)	20	11
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	Bromoform	ND	10	9.13	ug/L	91	(51-140)		
MSD_201501150316	Bromoform	ND	10	10.0	ug/L	101	(51-140)	20	10

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromomethane (Methyl Bromide)		20	21.4	ug/L	107	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	19.7	ug/L	98	(67-144)	20	8.3
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
MS_201501150316	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(55-147)		
MSD_201501150316	Bromomethane (Methyl Bromide)	ND	10	12.9	ug/L	129	(55-147)	20	7.2
LCS1	Carbon disulfide		20	19.2	ug/L	96	(63-131)		
LCS2	Carbon disulfide		20	18.3	ug/L	92	(63-131)	20	4.8
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	Carbon disulfide	ND	10	10.1	ug/L	100	(65-155)		
MSD_201501150316	Carbon disulfide	ND	10	10.7	ug/L	105	(65-155)	20	5.8
LCS1	Carbon Tetrachloride		20	19.8	ug/L	99	(73-127)		
LCS2	Carbon Tetrachloride		20	18.4	ug/L	92	(73-127)	20	7.3
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
MS_201501150316	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(71-151)		
MSD_201501150316	Carbon Tetrachloride	ND	10	11.4	ug/L	114	(71-151)	20	3.6
LCS1	Chlorobenzene		20	22.2	ug/L	111	(57-166)		
LCS2	Chlorobenzene		20	20.0	ug/L	100	(57-166)	20	10
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Chlorobenzene	ND	10	9.47	ug/L	95	(77-132)		
MSD_201501150316	Chlorobenzene	ND	10	9.92	ug/L	99	(77-132)	20	4.6
LCS1	Chlorodibromomethane		20	20.2	ug/L	101	(77-113)		
LCS2	Chlorodibromomethane		20	19.0	ug/L	95	(77-113)	20	6.1
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201501150316	Chlorodibromomethane	ND	10	10.3	ug/L	103	(68-136)		
MSD_201501150316	Chlorodibromomethane	ND	10	10.5	ug/L	105	(68-136)	20	1.9
LCS1	Chloroethane		20	20.9	ug/L	105	(70-133)		
LCS2	Chloroethane		20	18.8	ug/L	94	(70-133)	20	11
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201501150316	Chloroethane	ND	10	11.6	ug/L	116	(45-180)		
MSD_201501150316	Chloroethane	ND	10	12.2	ug/L	122	(45-180)	20	5.0
LCS1	Chloroform (Trichloromethane)		20	19.0	ug/L	95	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	17.4	ug/L	87	(78-117)	20	8.8

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Chloroform (Trichloromethane)	ND	10	8.56	ug/L	86	(76-133)		
MSD_201501150316	Chloroform (Trichloromethane)	ND	10	9.11	ug/L	91	(76-133)	20	6.2
LCS1	Chloromethane(Methyl Chloride)		20	21.0	ug/L	105	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	19.3	ug/L	97	(78-134)	20	8.4
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Chloromethane(Methyl Chloride)	ND	10	10.4	ug/L	104	(58-143)		
MSD_201501150316	Chloromethane(Methyl Chloride)	ND	10	11.1	ug/L	111	(58-140)	20	6.5
LCS1	cis-1,2-Dichloroethylene		20	20.3	ug/L	102	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	18.5	ug/L	92	(80-114)	20	9.3
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501150316	cis-1,2-Dichloroethylene	ND	10	9.78	ug/L	98	(78-133)		
MSD_201501150316	cis-1,2-Dichloroethylene	ND	10	10.2	ug/L	102	(78-133)	20	4.2
LCS1	cis-1,3-Dichloropropene		20	22.0	ug/L	110	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	20.8	ug/L	104	(68-123)	20	5.6
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	cis-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(65-120)		
MSD_201501150316	cis-1,3-Dichloropropene	ND	10	12.3	ug/L	123	(65-120)	20	10
LCS1	Dichlorodifluoromethane		20	19.1	ug/L	96	(46-165)		
LCS2	Dichlorodifluoromethane		20	18.4	ug/L	92	(46-165)	20	3.7
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(30-169)		
MSD_201501150316	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(30-169)	20	1.6
LCS1	Dichloromethane		20	20.8	ug/L	104	(77-121)		
LCS2	Dichloromethane		20	19.4	ug/L	97	(77-121)	20	7.0
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Dichloromethane	ND	10	9.99	ug/L	100	(75-132)		
MSD_201501150316	Dichloromethane	ND	10	10.1	ug/L	101	(75-132)	20	1.1
LCS1	Ethyl benzene		20	21.0	ug/L	105	(79-122)		
LCS2	Ethyl benzene		20	19.1	ug/L	96	(79-122)	20	9.5
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.640	ug/L	128	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501150316	Ethyl benzene	ND	10	9.52	ug/L	92	(68-146)		
MSD_201501150316	Ethyl benzene	ND	10	10.2	ug/L	99	(68-146)	20	6.9
LCS1	m,p-Xylenes		40	40.2	ug/L	101	(82-123)		
LCS2	m,p-Xylenes		40	37.8	ug/L	95	(82-123)	20	5.9
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.880	ug/L	88	(50-150)		
MRLW	m,p-Xylenes		0.5	0.470	ug/L	94	(50-150)		
MS_201501150316	m,p-Xylenes	ND	20	21.4	ug/L	107	(79-142)		
MSD_201501150316	m,p-Xylenes	ND	20	22.3	ug/L	112	(79-142)	20	4.1
LCS1	m-Dichlorobenzene (1,3-DCB)		20	20.1	ug/L	101	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	18.9	ug/L	94	(76-124)	20	6.2
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.550	ug/L	110	(50-150)		
MS_201501150316	m-Dichlorobenzene (1,3-DCB)	ND	10	9.53	ug/L	95	(76-139)		
MSD_201501150316	m-Dichlorobenzene (1,3-DCB)	ND	10	9.71	ug/L	97	(76-139)	20	1.9
LCS1	Methyl Tert-butyl ether (MTBE)		20	20.4	ug/L	102	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	19.2	ug/L	96	(70-130)	20	6.1
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.580	ug/L	116	(50-150)		
MS_201501150316	Methyl Tert-butyl ether (MTBE)	ND	10	9.93	ug/L	99	(70-130)		
MSD_201501150316	Methyl Tert-butyl ether (MTBE)	ND	10	10.5	ug/L	105	(70-130)	20	5.6
LCS1	o-Dichlorobenzene (1,2-DCB)		20	20.7	ug/L	103	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.6	ug/L	103	(79-118)	20	0.48
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501150316	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(80-125)		
MSD_201501150316	o-Dichlorobenzene (1,2-DCB)	ND	10	11.1	ug/L	111	(80-125)	20	7.5
LCS1	o-Xylene		20	21.0	ug/L	105	(79-120)		
LCS2	o-Xylene		20	19.2	ug/L	96	(79-120)	20	9.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.630	ug/L	126	(50-150)		
MS_201501150316	o-Xylene	ND	10	9.41	ug/L	94	(91-123)		
MSD_201501150316	o-Xylene	ND	10	9.78	ug/L	98	(91-123)	20	3.9
LCS1	p-Dichlorobenzene (1,4-DCB)		20	20.7	ug/L	103	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.1	ug/L	100	(74-130)	20	2.9
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201501150316	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(71-145)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501150316	p-Dichlorobenzene (1,4-DCB)	ND	10	10.7	ug/L	107	(71-145)	20	2.8
LCS1	Styrene		20	20.1	ug/L	100	(77-125)		
LCS2	Styrene		20	19.2	ug/L	96	(77-125)	20	4.6
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Styrene	ND	10	6.89	ug/L	69	(66-142)		
MSD_201501150316	Styrene	ND	10	6.42	ug/L	<u>64</u>	(66-142)	20	7.1
LCS1	Tetrachloroethylene (PCE)		20	20.3	ug/L	102	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	17.9	ug/L	90	(79-122)	20	13
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
MS_201501150316	Tetrachloroethylene (PCE)	ND	10	9.64	ug/L	96	(72-146)		
MSD_201501150316	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(72-146)	20	0.10
LCS1	Tetrahydrofuran		200	209	ug/L	104	(67-130)		
LCS2	Tetrahydrofuran		200	195	ug/L	98	(67-130)	20	6.9
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	4.91	ug/L	98	(50-150)		
MS_201501150316	Tetrahydrofuran	ND	100	99.9	ug/L	100	(68-134)		
MSD_201501150316	Tetrahydrofuran	ND	100	105	ug/L	105	(68-134)	20	5.0
LCS1	Toluene		20	21.2	ug/L	106	(80-118)		
LCS2	Toluene		20	19.1	ug/L	95	(80-118)	20	10
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.450	ug/L	90	(50-150)		
MS_201501150316	Toluene	ND	10	9.44	ug/L	94	(66-143)		
MSD_201501150316	Toluene	ND	10	9.85	ug/L	99	(66-143)	20	4.3
LCS1	Toluene-d8 (S)			112	%	112	(70-130)		
LCS2	Toluene-d8 (S)			105	%	105	(70-130)		
MBLK	Toluene-d8 (S)			85.8	%	86	(70-130)		
MRL_CHK	Toluene-d8 (S)			95.0	%	95	(70-130)		
MRLLW	Toluene-d8 (S)			91.2	%	91	(70-130)		
MS_201501150316	Toluene-d8 (S)			105	%	105	(70-130)		
MSD_201501150316	Toluene-d8 (S)			105	%	105	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	19.6	ug/L	98	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	18.0	ug/L	90	(82-122)	20	8.5
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
MS_201501150316	trans-1,2-Dichloroethylene	ND	10	9.46	ug/L	95	(74-138)		
MSD_201501150316	trans-1,2-Dichloroethylene	ND	10	10.1	ug/L	101	(74-138)	20	6.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	trans-1,3-Dichloropropene		20	21.9	ug/L	109	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	20.6	ug/L	103	(64-126)	20	6.1
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201501150316	trans-1,3-Dichloropropene	ND	10	10.8	ug/L	108	(61-127)		
MSD_201501150316	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(61-127)	20	3.6
LCS1	Trichloroethylene (TCE)		20	20.4	ug/L	102	(78-119)		
LCS2	Trichloroethylene (TCE)		20	18.3	ug/L	92	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201501150316	Trichloroethylene (TCE)	ND	10	9.65	ug/L	97	(71-139)		
MSD_201501150316	Trichloroethylene (TCE)	ND	10	9.94	ug/L	99	(71-139)	20	3.0
LCS1	Trichlorofluoromethane		20	18.7	ug/L	93	(70-145)		
LCS2	Trichlorofluoromethane		20	16.9	ug/L	85	(70-145)	20	10
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501150316	Trichlorofluoromethane	ND	10	10.4	ug/L	104	(63-161)		
MSD_201501150316	Trichlorofluoromethane	ND	10	11.0	ug/L	110	(63-161)	20	5.6
LCS1	Vinyl Acetate		100	156	ug/L	156	(72-136)		
LCS2	Vinyl Acetate		100	145	ug/L	145	(72-136)	20	7.3
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.18	ug/L	87	(50-150)		
MS_201501150316	Vinyl Acetate	ND	50	61.8	ug/L	124	(55-146)		
MSD_201501150316	Vinyl Acetate	ND	50	64.0	ug/L	128	(55-146)	20	3.5
LCS1	Vinyl chloride (VC)		20	20.0	ug/L	100	(66-140)		
LCS2	Vinyl chloride (VC)		20	18.4	ug/L	92	(66-140)	20	8.3
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.530	ug/L	106	(50-150)		
MRLW	Vinyl chloride (VC)		0.3	0.250	ug/L	83	(50-150)		
MS_201501150316	Vinyl chloride (VC)	ND	10	10.3	ug/L	103	(56-159)		
MSD_201501150316	Vinyl chloride (VC)	ND	10	10.9	ug/L	109	(56-159)	20	5.7

QC Ref# 814511 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 01/14/2015

LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)	20	0.0
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0507	mg/L	101	(53-118)		

QC Ref# 814545 - ICP Metals by EPA 200.7

Analysis Date: 01/15/2015

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Calcium Total ICAP		50	50.3	mg/L	101	(85-115)		
LCS2	Calcium Total ICAP		50	50.3	mg/L	101	(85-115)	20	0.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.975	mg/L	98	(50-150)		
MS_201501080619	Calcium Total ICAP	38	50	87.0	mg/L	99	(70-130)		
MS2_201501080751	Calcium Total ICAP	55	50	105	mg/L	99	(70-130)		
MSD_201501080619	Calcium Total ICAP	38	50	85.6	mg/L	96	(70-130)	20	1.6
MSD2_201501080751	Calcium Total ICAP	55	50	106	mg/L	101	(70-130)	20	0.95
LCS1	Magnesium Total ICAP		20	21.1	mg/L	106	(85-115)		
LCS2	Magnesium Total ICAP		20	21.2	mg/L	106	(85-115)	20	0.47
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.100	mg/L	100	(50-150)		
MS_201501080619	Magnesium Total ICAP	13	20	34.3	mg/L	105	(70-130)		
MS2_201501080751	Magnesium Total ICAP	16	20	37.8	mg/L	106	(70-130)		
MSD_201501080619	Magnesium Total ICAP	13	20	33.7	mg/L	102	(70-130)	20	1.8
MSD2_201501080751	Magnesium Total ICAP	16	20	37.3	mg/L	104	(70-130)	20	1.3
LCS1	Sodium Total ICAP		50	50.4	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	51.0	mg/L	102	(85-115)	20	1.2
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		
MS_201501080619	Sodium Total ICAP	8.6	50	59.5	mg/L	102	(70-130)		
MS2_201501080751	Sodium Total ICAP	140	50	192	mg/L	100	(70-130)		
MSD_201501080619	Sodium Total ICAP	8.6	50	58.8	mg/L	100	(70-130)	20	1.2
MSD2_201501080751	Sodium Total ICAP	140	50	186	mg/L	88	(70-130)	20	3.2

QC Ref# 814640 - ICPMS Metals by EPA 200.8

Analysis Date: 01/15/2015

LCS1	Copper dissolved ICAP/MS		100	96.2	ug/L	96	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.0
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201501090441	Copper Total ICAP/MS	82	100	95.6	ug/L	96	(70-130)		
MSD_201501090441	Copper Total ICAP/MS	82	100	96.2	ug/L	96	(70-130)	20	0.63

QC Ref# 814692 - ICPMS Metals by EPA 200.8

Analysis Date: 01/19/2015

LCS1	Antimony Total ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)	20	0.62
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501120311	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501130154	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		
MSD_201501120311	Antimony Total ICAP/MS	ND	50	52.4	ug/L	104	(70-130)	20	1.3
MSD2_201501130154	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)	20	5.7
LCS1	Arsenic Total ICAP/MS		20	18.7	ug/L	94	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	0.53
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.978	ug/L	98	(50-150)		
MS_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)		
MS2_201501130154	Arsenic Total ICAP/MS	3.3	20	23.4	ug/L	101	(70-130)		
MSD_201501120311	Arsenic Total ICAP/MS	2.6	20	23.1	ug/L	103	(70-130)	20	0.0
MSD2_201501130154	Arsenic Total ICAP/MS	3.3	20	22.4	ug/L	96	(70-130)	20	4.4
LCS1	Barium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.60
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201501120311	Barium Total ICAP/MS	26	100	130	ug/L	104	(70-130)		
MS2_201501130154	Barium Total ICAP/MS	48	100	154	ug/L	106	(70-130)		
MSD_201501120311	Barium Total ICAP/MS	26	100	131	ug/L	105	(70-130)	20	0.77
MSD2_201501130154	Barium Total ICAP/MS	48	100	147	ug/L	100	(70-130)	20	4.7
LCS1	Beryllium Total ICAP/MS		5.0	4.54	ug/L	91	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.49	ug/L	90	(85-115)	20	1.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.03	ug/L	101	(70-130)		
MS2_201501130154	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201501120311	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)	20	0.60
MSD2_201501130154	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)	20	7.4
LCS1	Cadmium Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.52
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.580	ug/L	116	(50-150)		
MS_201501120311	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201501130154	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501120311	Cadmium Total ICAP/MS	ND	20	20.5	ug/L	103	(70-130)	20	1.5
MSD2_201501130154	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	4.5
LCS1	Chromium Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.30
MBLK	Chromium Total ICAP/MS			<1	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chromium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501120311	Chromium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201501130154	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201501120311	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.90
MSD2_201501130154	Chromium Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)	20	5.1
LCS1	Cobalt Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.5	ug/L	100	(85-115)	20	2.4
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.99	ug/L	100	(50-150)		
MS_201501120311	Cobalt Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MS2_201501130154	Cobalt Total ICAP/MS	ND	100	99.3	ug/L	99	(70-130)		
MSD_201501120311	Cobalt Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)	20	0.20
MSD2_201501130154	Cobalt Total ICAP/MS	ND	100	94.1	ug/L	94	(70-130)	20	5.4
LCS1	Copper dissolved ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper dissolved ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MSD_201501120311	Copper dissolved ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
LCS1	Copper Total ICAP/MS		100	93.5	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.5
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.03	ug/L	101	(50-150)		
MS_201501120311	Copper Total ICAP/MS	ND	100	94.2	ug/L	94	(70-130)		
MS2_201501130154	Copper Total ICAP/MS	ND	100	94.7	ug/L	95	(70-130)		
MSD_201501120311	Copper Total ICAP/MS	ND	100	94.4	ug/L	94	(70-130)	20	0.21
MSD2_201501130154	Copper Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)	20	4.8
LCS1	Lead Total ICAP/MS		20	18.1	ug/L	91	(85-115)		
LCS2	Lead Total ICAP/MS		20	18.0	ug/L	90	(85-115)	20	0.55
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	100	(50-150)		
MS_201501120311	Lead Total ICAP/MS	ND	20	18.3	ug/L	92	(70-130)		
MS2_201501130154	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MSD_201501120311	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	0.55
MSD2_201501130154	Lead Total ICAP/MS	ND	20	17.5	ug/L	88	(70-130)	20	5.0
LCS1	Molybdenum dissolved ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.99	ug/L	99	(50-150)		
MS_201501120311	Molybdenum dissolved ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MSD_201501120311	Molybdenum dissolved ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
LCS1	Molybdenum Total ICAP/MS		100	94.7	ug/L	95	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	95.1	ug/L	95	(85-115)	20	0.42
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.99	ug/L	99	(50-150)		
MS_201501120311	Molybdenum Total ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MS2_201501130154	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)		
MSD_201501120311	Molybdenum Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	0.92
MSD2_201501130154	Molybdenum Total ICAP/MS	ND	100	92.5	ug/L	92	(70-130)	20	6.1
LCS1	Nickel Total ICAP/MS		50	45.9	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.9	ug/L	94	(85-115)	20	2.2
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201501120311	Nickel Total ICAP/MS	ND	50	45.8	ug/L	91	(70-130)		
MS2_201501130154	Nickel Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD_201501120311	Nickel Total ICAP/MS	ND	50	46.7	ug/L	93	(70-130)	20	2.0
MSD2_201501130154	Nickel Total ICAP/MS	ND	50	44.3	ug/L	88	(70-130)	20	4.8
LCS1	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.51	ug/L	110	(50-150)		
MS_201501120311	Selenium Total ICAP/MS	ND	20	23.5	ug/L	116	(70-130)		
MS2_201501130154	Selenium Total ICAP/MS	ND	20	22.0	ug/L	109	(70-130)		
MSD_201501120311	Selenium Total ICAP/MS	ND	20	23.4	ug/L	116	(70-130)	20	0.43
MSD2_201501130154	Selenium Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	3.7
LCS1	Thallium Total ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Thallium Total ICAP/MS		20	18.8	ug/L	94	(85-115)	20	1.1
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	101	(50-150)		
MS_201501120311	Thallium Total ICAP/MS	ND	20	19.1	ug/L	95	(70-130)		
MS2_201501130154	Thallium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)		
MSD_201501120311	Thallium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	1.6
MSD2_201501130154	Thallium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	5.4
LCS1	Vanadium Total ICAP/MS		100	97.1	ug/L	97	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)	20	1.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.96	ug/L	99	(50-150)		
MS_201501120311	Vanadium Total ICAP/MS	ND	100	98.6	ug/L	99	(70-130)		
MS2_201501130154	Vanadium Total ICAP/MS	7.2	100	106	ug/L	99	(70-130)		
MSD_201501120311	Vanadium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.4
MSD2_201501130154	Vanadium Total ICAP/MS	7.2	100	102	ug/L	95	(70-130)	20	3.9
LCS1	Zinc Total ICAP/MS		100	89.1	ug/L	89	(85-115)		
LCS2	Zinc Total ICAP/MS		100	90.8	ug/L	91	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	19.4	ug/L	97	(50-150)		
MS_201501120311	Zinc Total ICAP/MS	ND	100	99.1	ug/L	99	(70-130)		
MS2_201501130154	Zinc Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)		
MSD_201501120311	Zinc Total ICAP/MS	ND	100	99.8	ug/L	100	(70-130)	20	0.80
MSD2_201501130154	Zinc Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	6.1

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Analysis Date: 01/15/2015

LCS1	1,1,1-Trichloroethane		20	19.0	ug/L	95	(79-121)		
LCS2	1,1,1-Trichloroethane		20	21.1	ug/L	106	(79-121)	20	11
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501090438	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	19.8	ug/L	99	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	22.4	ug/L	112	(77-126)	20	12
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201501090438	1,1,2,2-Tetrachloroethane	ND	10	10.2	ug/L	102	(79-130)		
LCS1	1,1,2-Trichloroethane		20	19.2	ug/L	96	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.8	ug/L	109	(79-116)	20	13
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501090438	1,1,2-Trichloroethane	ND	10	11.4	ug/L	114	(76-129)		
LCS1	1,1-Dichloroethane		20	19.1	ug/L	96	(77-129)		
LCS2	1,1-Dichloroethane		20	21.1	ug/L	105	(77-129)	20	9.9
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201501090438	1,1-Dichloroethane	ND	10	11.6	ug/L	116	(70-146)		
LCS1	1,1-Dichloroethylene		20	18.8	ug/L	94	(77-139)		
LCS2	1,1-Dichloroethylene		20	20.9	ug/L	105	(77-139)	20	11
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090438	1,1-Dichloroethylene	ND	10	12.0	ug/L	120	(75-134)		
LCS1	1,2-Dichloroethane		20	19.0	ug/L	95	(81-122)		
LCS2	1,2-Dichloroethane		20	21.4	ug/L	107	(81-122)	20	12
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201501090438	1,2-Dichloroethane	ND	10	11.0	ug/L	110	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201501090438	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS1	1,2-Dichloropropane		20	19.1	ug/L	96	(77-118)		
LCS2	1,2-Dichloropropane		20	21.2	ug/L	106	(77-118)	20	10
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.550	ug/L	110	(50-150)		
MS_201501090438	1,2-Dichloropropane	ND	10	10.8	ug/L	108	(73-132)		
LCS1	2-Butanone (MEK)		200	218	ug/L	109	(65-122)		
LCS2	2-Butanone (MEK)		200	242	ug/L	121	(65-122)	20	11
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	3.48	ug/L	70	(50-150)		
MS_201501090438	2-Butanone (MEK)	ND	100	132	ug/L	<u>132</u>	(59-129)		
LCS1	2-Hexanone		200	199	ug/L	100	(72-128)		
LCS2	2-Hexanone		200	218	ug/L	109	(72-128)	20	9.1
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	5.26	ug/L	105	(50-150)		
MS_201501090438	2-Hexanone	ND	100	131	ug/L	131	(71-134)		
LCS1	4-Bromofluorobenzene (S)			95.8	%	96	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			97.2	%	97	(70-130)		
MRLW	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MS_201501090438	4-Bromofluorobenzene (S)			85.8	%	86	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	202	ug/L	101	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	223	ug/L	112	(76-130)	20	9.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.08	ug/L	102	(50-150)		
MS_201501090438	4-Methyl-2-Pentanone (MIBK)	ND	100	130	ug/L	130	(75-136)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Acetone		200	206	ug/L	103	(47-117)		
LCS2	Acetone		200	239	ug/L	<u>119</u>	(47-117)	20	15
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	8.26	ug/L	<u>165</u>	(50-150)		
MS_201501090438	Acetone	ND	100	155	ug/L	<u>155</u>	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	18.9	ug/L	94	(60-156)		
LCS2	Benzene		20	21.1	ug/L	105	(60-156)	20	11
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.530	ug/L	106	(50-150)		
MS_201501090438	Benzene	ND	10	11.2	ug/L	112	(76-133)		
LCS1	Bromodichloromethane		20	20.6	ug/L	103	(77-113)		
LCS2	Bromodichloromethane		20	22.8	ug/L	<u>114</u>	(77-113)	20	10
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201501090438	Bromodichloromethane	ND	10	12.2	ug/L	122	(77-130)		
LCS1	Bromoform		20	18.6	ug/L	93	(54-134)		
LCS2	Bromoform		20	20.8	ug/L	104	(54-134)	20	11
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.390	ug/L	78	(50-150)		
MS_201501090438	Bromoform	ND	10	9.87	ug/L	99	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	18.4	ug/L	92	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	21.0	ug/L	105	(67-144)	20	13
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.690	ug/L	138	(50-150)		
MS_201501090438	Bromomethane (Methyl Bromide)	ND	10	5.16	ug/L	<u>52</u>	(55-147)		
LCS1	Carbon disulfide		20	17.0	ug/L	85	(63-131)		
LCS2	Carbon disulfide		20	19.2	ug/L	96	(63-131)	20	12
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.620	ug/L	124	(50-150)		
MS_201501090438	Carbon disulfide	ND	10	14.2	ug/L	141	(65-155)		
LCS1	Carbon Tetrachloride		20	18.6	ug/L	93	(73-127)		
LCS2	Carbon Tetrachloride		20	21.0	ug/L	105	(73-127)	20	12
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.460	ug/L	92	(50-150)		
MS_201501090438	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(71-151)		
LCS1	Chlorobenzene		20	18.4	ug/L	92	(57-166)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chlorobenzene		20	20.5	ug/L	103	(57-166)	20	11
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.560	ug/L	112	(50-150)		
MS_201501090438	Chlorobenzene	ND	10	11.1	ug/L	111	(77-132)		
LCS1	Chlorodibromomethane		20	20.2	ug/L	101	(77-113)		
LCS2	Chlorodibromomethane		20	22.9	ug/L	<u>114</u>	(77-113)	20	13
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.440	ug/L	88	(50-150)		
MS_201501090438	Chlorodibromomethane	ND	10	11.6	ug/L	116	(68-136)		
LCS1	Chloroethane		20	18.2	ug/L	91	(70-133)		
LCS2	Chloroethane		20	20.1	ug/L	100	(70-133)	20	9.9
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.640	ug/L	128	(50-150)		
MS_201501090438	Chloroethane	ND	10	11.5	ug/L	115	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	18.5	ug/L	92	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	21.1	ug/L	105	(78-117)	20	13
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.610	ug/L	122	(50-150)		
MS_201501090438	Chloroform (Trichloromethane)	ND	10	11.4	ug/L	114	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	17.4	ug/L	87	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	19.4	ug/L	97	(78-134)	20	11
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.570	ug/L	114	(50-150)		
MS_201501090438	Chloromethane(Methyl Chloride)	ND	10	10.8	ug/L	108	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	20.2	ug/L	101	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	21.3	ug/L	107	(80-114)	20	5.3
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.590	ug/L	118	(50-150)		
MS_201501090438	cis-1,2-Dichloroethylene	ND	10	11.7	ug/L	117	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	19.6	ug/L	98	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	22.2	ug/L	111	(68-123)	20	13
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201501090438	cis-1,3-Dichloropropene	ND	10	6.13	ug/L	<u>61</u>	(65-120)		
LCS1	Dichlorodifluoromethane		20	19.0	ug/L	95	(46-165)		
LCS2	Dichlorodifluoromethane		20	20.8	ug/L	104	(46-165)	20	9.1
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.520	ug/L	104	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501090438	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(30-169)		
LCS1	Dichloromethane		20	18.2	ug/L	91	(77-121)		
LCS2	Dichloromethane		20	21.1	ug/L	106	(77-121)	20	15
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.700	ug/L	140	(50-150)		
MS_201501090438	Dichloromethane	ND	10	11.0	ug/L	110	(75-132)		
LCS1	Ethyl benzene		20	19.0	ug/L	95	(79-122)		
LCS2	Ethyl benzene		20	21.2	ug/L	106	(79-122)	20	11
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.530	ug/L	106	(50-150)		
MS_201501090438	Ethyl benzene	ND	10	11.5	ug/L	115	(68-146)		
LCS1	m,p-Xylenes		40	38.5	ug/L	96	(82-123)		
LCS2	m,p-Xylenes		40	43.6	ug/L	109	(82-123)	20	12
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.02	ug/L	102	(50-150)		
MRLW	m,p-Xylenes		0.5	0.430	ug/L	86	(50-150)		
MS_201501090438	m,p-Xylenes	ND	20	24.6	ug/L	123	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	17.2	ug/L	86	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.3	ug/L	101	(76-124)	20	17
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501090438	m-Dichlorobenzene (1,3-DCB)	ND	10	9.60	ug/L	96	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	18.8	ug/L	94	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	21.6	ug/L	108	(70-130)	20	14
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.620	ug/L	124	(50-150)		
MS_201501090438	Methyl Tert-butyl ether (MTBE)	ND	10	12.0	ug/L	119	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	18.7	ug/L	93	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.1	ug/L	100	(79-118)	20	7.2
MBLK	o-Dichlorobenzene (1,2-DCB)			0.290	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.540	ug/L	108	(50-150)		
MS_201501090438	o-Dichlorobenzene (1,2-DCB)	ND	10	10.7	ug/L	107	(80-125)		
LCS1	o-Xylene		20	19.4	ug/L	97	(79-120)		
LCS2	o-Xylene		20	22.0	ug/L	110	(79-120)	20	13
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
MS_201501090438	o-Xylene	ND	10	11.5	ug/L	115	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	18.0	ug/L	90	(74-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	p-Dichlorobenzene (1,4-DCB)		20	21.4	ug/L	107	(74-130)	20	17
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
MS_201501090438	p-Dichlorobenzene (1,4-DCB)	ND	10	10.0	ug/L	100	(71-145)		
LCS1	Styrene		20	19.7	ug/L	99	(77-125)		
LCS2	Styrene		20	21.2	ug/L	106	(77-125)	20	7.3
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.550	ug/L	110	(50-150)		
MS_201501090438	Styrene	ND	10	13.5	ug/L	133	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	18.2	ug/L	91	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	20.2	ug/L	101	(79-122)	20	10
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201501090438	Tetrachloroethylene (PCE)	ND	10	10.4	ug/L	104	(72-146)		
LCS1	Tetrahydrofuran		200	200	ug/L	100	(67-130)		
LCS2	Tetrahydrofuran		200	210	ug/L	105	(67-130)	20	4.9
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	6.03	ug/L	121	(50-150)		
MS_201501090438	Tetrahydrofuran	ND	100	114	ug/L	114	(68-134)		
LCS1	Toluene		20	18.7	ug/L	94	(80-118)		
LCS2	Toluene		20	21.2	ug/L	106	(80-118)	20	13
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.510	ug/L	102	(50-150)		
MS_201501090438	Toluene	ND	10	11.2	ug/L	112	(66-143)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			103	%	103	(70-130)		
MBLK	Toluene-d8 (S)			101	%	101	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.8	%	100	(70-130)		
MRLW	Toluene-d8 (S)			98.6	%	99	(70-130)		
MS_201501090438	Toluene-d8 (S)			104	%	104	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	19.7	ug/L	99	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	22.0	ug/L	110	(82-122)	20	11
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
MS_201501090438	trans-1,2-Dichloroethylene	ND	10	12.1	ug/L	121	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	19.5	ug/L	97	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	21.6	ug/L	108	(64-126)	20	11
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.510	ug/L	102	(50-150)		
MS_201501090438	trans-1,3-Dichloropropene	ND	10	8.94	ug/L	89	(61-127)		
LCS1	Trichloroethylene (TCE)		20	18.9	ug/L	95	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.0	ug/L	105	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201501090438	Trichloroethylene (TCE)	ND	10	11.6	ug/L	116	(71-139)		
LCS1	Trichlorofluoromethane		20	17.5	ug/L	87	(70-145)		
LCS2	Trichlorofluoromethane		20	19.8	ug/L	99	(70-145)	20	12
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201501090438	Trichlorofluoromethane	ND	10	12.6	ug/L	126	(63-161)		
LCS1	Vinyl Acetate		100	99.1	ug/L	99	(72-136)		
LCS2	Vinyl Acetate		100	109	ug/L	109	(72-136)	20	9.5
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.08	ug/L	83	(50-150)		
MS_201501090438	Vinyl Acetate	ND	50	36.1	ug/L	72	(55-146)		
LCS1	Vinyl chloride (VC)		20	18.6	ug/L	93	(66-140)		
LCS2	Vinyl chloride (VC)		20	20.4	ug/L	102	(66-140)	20	9.2
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.540	ug/L	108	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.250	ug/L	83	(50-150)		
MS_201501090438	Vinyl chloride (VC)	ND	10	12.3	ug/L	123	(56-159)		

QC Ref# 814742 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 01/15/2015

LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS1	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.8	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			97.2	%	97	(70-130)		
LCS1	Bromodichloromethane		5.0	4.85	ug/L	97	(70-130)		
LCS2	Bromodichloromethane		5.0	4.85	ug/L	97	(70-130)	20	0.0
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromoform		5.0	4.56	ug/L	91	(70-130)		
LCS2	Bromoform		5.0	4.40	ug/L	88	(70-130)	20	3.6

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.390	ug/L	78	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.80	ug/L	96	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.75	ug/L	95	(70-130)	20	1.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.60	ug/L	92	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.90	ug/L	98	(70-130)	20	6.3
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.610	ug/L	122	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			97.8	%	98	(70-130)		
MBLK	Toluene-d8 (S)			101	%	101	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.8	%	100	(70-130)		

QC Ref# 814792 - ICPMS Metals by EPA 200.8

Analysis Date: 01/15/2015

LCS1	Antimony Total ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201501130473	Antimony Total ICAP/MS	ND	50	54.3	ug/L	107	(70-130)		
MS2_201501140224	Antimony Total ICAP/MS	ND	50	53.2	ug/L	105	(70-130)		
MSD_201501130473	Antimony Total ICAP/MS	ND	50	53.4	ug/L	106	(70-130)	20	1.1
MSD2_201501140224	Antimony Total ICAP/MS	ND	50	53.5	ug/L	106	(70-130)	20	0.56
LCS1	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.778	ug/L	78	(50-150)		
MS_201501130473	Arsenic Total ICAP/MS	1.4	20	21.6	ug/L	101	(70-130)		
MS2_201501140224	Arsenic Total ICAP/MS	1.0	20	21.6	ug/L	103	(70-130)		
MSD_201501130473	Arsenic Total ICAP/MS	1.4	20	21.9	ug/L	102	(70-130)	20	1.4
MSD2_201501140224	Arsenic Total ICAP/MS	1.0	20	21.5	ug/L	103	(70-130)	20	0.46
LCS1	Barium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.05	ug/L	103	(50-150)		
MS_201501130473	Barium Total ICAP/MS	26	100	130	ug/L	104	(70-130)		
MS2_201501140224	Barium Total ICAP/MS	24	100	124	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501130473	Barium Total ICAP/MS	26	100	129	ug/L	103	(70-130)	20	0.77
MSD2_201501140224	Barium Total ICAP/MS	24	100	125	ug/L	101	(70-130)	20	0.80
LCS1	Beryllium Total ICAP/MS		5.0	5.10	ug/L	102	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)	20	2.0
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.00	ug/L	100	(50-150)		
MS_201501130473	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)		
MS2_201501140224	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)		
MSD_201501130473	Beryllium Total ICAP/MS	ND	5.0	4.73	ug/L	94	(70-130)	20	0.42
MSD2_201501140224	Beryllium Total ICAP/MS	ND	5.0	4.79	ug/L	96	(70-130)	20	0.84
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.49
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.496	ug/L	99	(50-150)		
MS_201501130473	Cadmium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501140224	Cadmium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MSD_201501130473	Cadmium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	0.0
MSD2_201501140224	Cadmium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	0.0
LCS1	Chromium Total ICAP/MS		100	99.9	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201501130473	Chromium Total ICAP/MS	1.3	100	108	ug/L	107	(70-130)		
MS2_201501140224	Chromium Total ICAP/MS	ND	100	107	ug/L	106	(70-130)		
MSD_201501130473	Chromium Total ICAP/MS	1.3	100	107	ug/L	106	(70-130)	20	0.93
MSD2_201501140224	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	0.94
LCS1	Cobalt Total ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	98.5	ug/L	99	(85-115)	20	0.10
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201501130473	Cobalt Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501140224	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501130473	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.0
MSD2_201501140224	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Copper Total ICAP/MS		100	97.9	ug/L	98	(85-115)	20	1.2
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.15	ug/L	108	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501130473	Copper Total ICAP/MS	4.4	100	98.6	ug/L	94	(70-130)		
MS2_201501140224	Copper Total ICAP/MS	ND	100	94.8	ug/L	93	(70-130)		
MSD_201501130473	Copper Total ICAP/MS	4.4	100	96.1	ug/L	92	(70-130)	20	2.6
MSD2_201501140224	Copper Total ICAP/MS	ND	100	94.9	ug/L	93	(70-130)	20	0.11
LCS1	Lead Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.51
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.518	ug/L	104	(50-150)		
MS_201501130473	Lead Total ICAP/MS	ND	20	21.5	ug/L	106	(70-130)		
MS2_201501140224	Lead Total ICAP/MS	ND	20	21.0	ug/L	104	(70-130)		
MSD_201501130473	Lead Total ICAP/MS	ND	20	21.3	ug/L	105	(70-130)	20	0.94
MSD2_201501140224	Lead Total ICAP/MS	ND	20	21.0	ug/L	104	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201501130473	Molybdenum Total ICAP/MS	3.5	100	117	ug/L	114	(70-130)		
MS2_201501140224	Molybdenum Total ICAP/MS	8.1	100	121	ug/L	113	(70-130)		
MSD_201501130473	Molybdenum Total ICAP/MS	3.5	100	117	ug/L	113	(70-130)	20	2.5
MSD2_201501140224	Molybdenum Total ICAP/MS	8.1	100	121	ug/L	113	(70-130)	20	0.0
LCS1	Nickel Total ICAP/MS		50	48.7	ug/L	97	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.2	ug/L	98	(85-115)	20	1.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.11	ug/L	102	(50-150)		
MS_201501130473	Nickel Total ICAP/MS	ND	50	50.8	ug/L	97	(70-130)		
MS2_201501140224	Nickel Total ICAP/MS	ND	50	50.8	ug/L	96	(70-130)		
MSD_201501130473	Nickel Total ICAP/MS	ND	50	50.3	ug/L	96	(70-130)	20	0.99
MSD2_201501140224	Nickel Total ICAP/MS	ND	50	51.1	ug/L	97	(70-130)	20	0.59
LCS1	Selenium Total ICAP/MS		20	17.9	ug/L	90	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.7	ug/L	93	(85-115)	20	4.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.79	ug/L	96	(50-150)		
MS_201501130473	Selenium Total ICAP/MS	ND	20	20.6	ug/L	99	(70-130)		
MS2_201501140224	Selenium Total ICAP/MS	ND	20	21.2	ug/L	101	(70-130)		
MSD_201501130473	Selenium Total ICAP/MS	ND	20	20.8	ug/L	100	(70-130)	20	0.96
MSD2_201501140224	Selenium Total ICAP/MS	ND	20	21.0	ug/L	100	(70-130)	20	0.95
LCS1	Silver Total ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	51.2	ug/L	102	(85-115)	20	1.2

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.505	ug/L	101	(50-150)		
MS_201501130473	Silver Total ICAP/MS	ND	50	47.0	ug/L	94	(70-130)		
MS2_201501140224	Silver Total ICAP/MS	ND	50	46.2	ug/L	92	(70-130)		
MSD_201501130473	Silver Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)	20	1.5
MSD2_201501140224	Silver Total ICAP/MS	ND	50	46.2	ug/L	93	(70-130)	20	0.22
LCS1	Thallium Total ICAP/MS		20	18.9	ug/L	95	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.53
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.995	ug/L	100	(50-150)		
MS_201501130473	Thallium Total ICAP/MS	ND	20	20.5	ug/L	103	(70-130)		
MS2_201501140224	Thallium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201501130473	Thallium Total ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	0.97
MSD2_201501140224	Thallium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	0.98
LCS1	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.98	ug/L	99	(50-150)		
MS_201501130473	Vanadium Total ICAP/MS	3.8	100	114	ug/L	110	(70-130)		
MS2_201501140224	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)		
MSD_201501130473	Vanadium Total ICAP/MS	3.8	100	113	ug/L	109	(70-130)	20	0.88
MSD2_201501140224	Vanadium Total ICAP/MS	ND	100	112	ug/L	111	(70-130)	20	1.8
LCS1	Zinc Total ICAP/MS		100	100	ug/L	101	(85-115)		
LCS2	Zinc Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	23.7	ug/L	118	(50-150)		
MS_201501130473	Zinc Total ICAP/MS	52	100	143	ug/L	91	(70-130)		
MS2_201501140224	Zinc Total ICAP/MS	41	100	136	ug/L	95	(70-130)		
MSD_201501130473	Zinc Total ICAP/MS	52	100	143	ug/L	91	(70-130)	20	0.0
MSD2_201501140224	Zinc Total ICAP/MS	41	100	130	ug/L	89	(70-130)	20	4.5

QC Ref# 814906 - ICPMS Metals by EPA 200.8

Analysis Date: 01/16/2015

LCS1	Antimony Total ICAP/MS		50	50.0	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	0.20
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.670	ug/L	67	(50-150)		
MS_201501160385	Antimony Total ICAP/MS	ND	50	52.5	ug/L	104	(70-130)		
MSD_201501160385	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)	20	0.77

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 815373 - ICPMS Metals by EPA 200.8						Analysis Date: 01/20/2015			
LCS1	Silver dissolved ICAP/MS		50	47.7	ug/L	95	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	44.1	ug/L	88	(85-115)	20	7.8
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.478	ug/L	96	(50-150)		
MS_201501140450	Silver dissolved ICAP/MS	ND	50	22.4	ug/L	<u>45</u>	(70-130)		
MS2_201501140760	Silver dissolved ICAP/MS	ND	50	13.6	ug/L	<u>27</u>	(70-130)		
MSD_201501140450	Silver dissolved ICAP/MS	ND	50	20.6	ug/L	<u>41</u>	(70-130)	20	8.4
MSD2_201501140760	Silver dissolved ICAP/MS	ND	50	24.5	ug/L	<u>49</u>	(70-130)	20	<u>57</u>
QC Ref# 815460 - ICPMS Metals by EPA 200.8						Analysis Date: 01/21/2015			
LCS1	Antimony Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.6	ug/L	97	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201501160326	Antimony Total ICAP/MS	ND	50	53.4	ug/L	107	(70-130)		
MS_201501160326	Antimony Total ICAP/MS	ND	50	53.4	ug/L	107	(70-130)		
MS2_201501160329	Antimony Total ICAP/MS	ND	50	47.9	ug/L	96	(70-130)		
MS2_201501160329	Antimony Total ICAP/MS	ND	50	47.9	ug/L	96	(70-130)		
MSD_201501160326	Antimony Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)	20	0.56
MSD_201501160326	Antimony Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)	20	0.56
MSD2_201501160329	Antimony Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)	20	2.3
MSD2_201501160329	Antimony Total ICAP/MS	ND	50	49.0	ug/L	98	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	2.5
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501160326	Arsenic Total ICAP/MS	ND	20	24.6	ug/L	119	(70-130)		
MS_201501160326	Arsenic Total ICAP/MS	ND	20	24.6	ug/L	119	(70-130)		
MS2_201501160329	Arsenic Total ICAP/MS	ND	20	22.2	ug/L	108	(70-130)		
MS2_201501160329	Arsenic Total ICAP/MS	ND	20	22.2	ug/L	108	(70-130)		
MSD_201501160326	Arsenic Total ICAP/MS	ND	20	24.6	ug/L	120	(70-130)	20	0.0
MSD_201501160326	Arsenic Total ICAP/MS	ND	20	24.6	ug/L	120	(70-130)	20	0.0
MSD2_201501160329	Arsenic Total ICAP/MS	ND	20	22.7	ug/L	110	(70-130)	20	2.2
MSD2_201501160329	Arsenic Total ICAP/MS	ND	20	22.7	ug/L	110	(70-130)	20	2.2
LCS1	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Barium Total ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.3
MBLK	Barium Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Barium Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201501160326	Barium Total ICAP/MS	69	100	176	ug/L	104	(70-130)		
MS_201501160326	Barium Total ICAP/MS	72	100	176	ug/L	104	(70-130)		
MS2_201501160329	Barium Total ICAP/MS	69	100	166	ug/L	95	(70-130)		
MS2_201501160329	Barium Total ICAP/MS	71	100	166	ug/L	95	(70-130)		
MSD_201501160326	Barium Total ICAP/MS	69	100	176	ug/L	104	(70-130)	20	0.57
MSD_201501160326	Barium Total ICAP/MS	72	100	176	ug/L	104	(70-130)	20	0.57
MSD2_201501160329	Barium Total ICAP/MS	69	100	169	ug/L	97	(70-130)	20	1.8
MSD2_201501160329	Barium Total ICAP/MS	71	100	169	ug/L	97	(70-130)	20	1.8
LCS1	Beryllium Total ICAP/MS		5.0	4.79	ug/L	96	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.66	ug/L	93	(85-115)	20	2.8
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201501160326	Beryllium Total ICAP/MS	ND	5.0	5.41	ug/L	108	(70-130)		
MS_201501160326	Beryllium Total ICAP/MS	ND	5.0	5.41	ug/L	108	(70-130)		
MS2_201501160329	Beryllium Total ICAP/MS	ND	5.0	4.76	ug/L	95	(70-130)		
MS2_201501160329	Beryllium Total ICAP/MS	ND	5.0	4.76	ug/L	95	(70-130)		
MSD_201501160326	Beryllium Total ICAP/MS	ND	5.0	5.27	ug/L	105	(70-130)	20	2.6
MSD_201501160326	Beryllium Total ICAP/MS	ND	5.0	5.27	ug/L	105	(70-130)	20	2.6
MSD2_201501160329	Beryllium Total ICAP/MS	ND	5.0	4.91	ug/L	98	(70-130)	20	3.1
MSD2_201501160329	Beryllium Total ICAP/MS	ND	5.0	4.91	ug/L	98	(70-130)	20	3.1
LCS1	Cadmium Total ICAP/MS		20	20.1	ug/L	100	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	2.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.536	ug/L	107	(50-150)		
MS_201501160326	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)		
MS_201501160326	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)		
MS2_201501160329	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)		
MS2_201501160329	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)		
MSD_201501160326	Cadmium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.0
MSD_201501160326	Cadmium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.0
MSD2_201501160329	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	2.6
MSD2_201501160329	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	2.6
LCS1	Chromium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.95
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201501160326	Chromium Total ICAP/MS	14	100	127	ug/L	113	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501160329	Chromium Total ICAP/MS	14	100	116	ug/L	102	(70-130)		
MSD_201501160326	Chromium Total ICAP/MS	14	100	127	ug/L	113	(70-130)	20	0.0
MSD2_201501160329	Chromium Total ICAP/MS	14	100	118	ug/L	104	(70-130)	20	2.5
LCS1	Cobalt Total ICAP/MS		100	106	ug/L	107	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)	20	4.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201501160326	Cobalt Total ICAP/MS	ND	100	107	ug/L	107	(70-130)		
MS_201501160326	Cobalt Total ICAP/MS	ND	100	107	ug/L	107	(70-130)		
MS2_201501160329	Cobalt Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)		
MS2_201501160329	Cobalt Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)		
MSD_201501160326	Cobalt Total ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	0.0
MSD_201501160326	Cobalt Total ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	0.0
MSD2_201501160329	Cobalt Total ICAP/MS	ND	100	99.6	ug/L	99	(70-130)	20	3.7
MSD2_201501160329	Cobalt Total ICAP/MS	ND	100	99.6	ug/L	99	(70-130)	20	3.7
LCS1	Copper dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	98.8	ug/L	99	(85-115)	20	2.1
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501160326	Copper dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501160329	Copper dissolved ICAP/MS	ND	100	89.5	ug/L	89	(70-130)		
MSD_201501160326	Copper dissolved ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.0
MSD2_201501160329	Copper dissolved ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	3.1
LCS1	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	2.1
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201501160326	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS_201501160326	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MS2_201501160329	Copper Total ICAP/MS	ND	100	89.5	ug/L	89	(70-130)		
MS2_201501160329	Copper Total ICAP/MS	ND	100	89.5	ug/L	89	(70-130)		
MSD_201501160326	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.0
MSD_201501160326	Copper Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.0
MSD2_201501160329	Copper Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	3.1
MSD2_201501160329	Copper Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)	20	3.1
LCS1	Lead Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	2.6
MBLK	Lead Total ICAP/MS			<0.5	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Lead Total ICAP/MS		0.5	0.539	ug/L	108	(50-150)		
MS_201501160326	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS_201501160326	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201501160329	Lead Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MS2_201501160329	Lead Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201501160326	Lead Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD_201501160326	Lead Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	1.5
MSD2_201501160329	Lead Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)	20	1.1
MSD2_201501160329	Lead Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)	20	1.1
LCS1	Molybdenum Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501160326	Molybdenum Total ICAP/MS	5.9	100	116	ug/L	110	(70-130)		
MS_201501160326	Molybdenum Total ICAP/MS	6	100	116	ug/L	110	(70-130)		
MS2_201501160329	Molybdenum Total ICAP/MS	6	100	106	ug/L	100	(70-130)		
MS2_201501160329	Molybdenum Total ICAP/MS	6.1	100	106	ug/L	100	(70-130)		
MSD_201501160326	Molybdenum Total ICAP/MS	5.9	100	116	ug/L	110	(70-130)	20	0.0
MSD_201501160326	Molybdenum Total ICAP/MS	6	100	116	ug/L	110	(70-130)	20	0.0
MSD2_201501160329	Molybdenum Total ICAP/MS	6	100	108	ug/L	102	(70-130)	20	1.9
MSD2_201501160329	Molybdenum Total ICAP/MS	6.1	100	108	ug/L	102	(70-130)	20	1.9
LCS1	Nickel Total ICAP/MS		50	49.0	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	47.8	ug/L	96	(85-115)	20	2.5
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.01	ug/L	100	(50-150)		
MS_201501160326	Nickel Total ICAP/MS	ND	50	50.7	ug/L	98	(70-130)		
MS_201501160326	Nickel Total ICAP/MS	ND	50	50.7	ug/L	98	(70-130)		
MS2_201501160329	Nickel Total ICAP/MS	ND	50	45.9	ug/L	88	(70-130)		
MS2_201501160329	Nickel Total ICAP/MS	ND	50	45.9	ug/L	88	(70-130)		
MSD_201501160326	Nickel Total ICAP/MS	ND	50	51.2	ug/L	99	(70-130)	20	0.98
MSD_201501160326	Nickel Total ICAP/MS	ND	50	51.2	ug/L	99	(70-130)	20	0.98
MSD2_201501160329	Nickel Total ICAP/MS	ND	50	46.9	ug/L	90	(70-130)	20	2.2
MSD2_201501160329	Nickel Total ICAP/MS	ND	50	46.9	ug/L	90	(70-130)	20	2.2
LCS1	Selenium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.5	ug/L	97	(85-115)	20	1.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.13	ug/L	103	(50-150)		
MS_201501160326	Selenium Total ICAP/MS	ND	20	29.8	ug/L	132	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501160326	Selenium Total ICAP/MS	ND	20	29.8	ug/L	132	(70-130)		
MS2_201501160329	Selenium Total ICAP/MS	ND	20	26.6	ug/L	118	(70-130)		
MS2_201501160329	Selenium Total ICAP/MS	ND	20	26.6	ug/L	118	(70-130)		
MSD_201501160326	Selenium Total ICAP/MS	ND	20	28.9	ug/L	127	(70-130)	20	3.1
MSD_201501160326	Selenium Total ICAP/MS	ND	20	28.9	ug/L	127	(70-130)	20	3.1
MSD2_201501160329	Selenium Total ICAP/MS	ND	20	27.0	ug/L	120	(70-130)	20	1.5
MSD2_201501160329	Selenium Total ICAP/MS	ND	20	27.0	ug/L	120	(70-130)	20	1.5
LCS1	Thallium Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	2.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	103	(50-150)		
MS_201501160326	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)		
MS_201501160326	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)		
MS2_201501160329	Thallium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MS2_201501160329	Thallium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MSD_201501160326	Thallium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)	20	1.0
MSD_201501160326	Thallium Total ICAP/MS	ND	20	19.9	ug/L	99	(70-130)	20	1.0
MSD2_201501160329	Thallium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	1.6
MSD2_201501160329	Thallium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	1.6
LCS1	Vanadium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	1.9
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.09	ug/L	103	(50-150)		
MS_201501160326	Vanadium Total ICAP/MS	5.3	100	121	ug/L	116	(70-130)		
MS_201501160326	Vanadium Total ICAP/MS	5.4	100	121	ug/L	116	(70-130)		
MS2_201501160329	Vanadium Total ICAP/MS	6.2	100	109	ug/L	103	(70-130)		
MS2_201501160329	Vanadium Total ICAP/MS	6.4	100	109	ug/L	103	(70-130)		
MSD_201501160326	Vanadium Total ICAP/MS	5.3	100	120	ug/L	115	(70-130)	20	0.83
MSD_201501160326	Vanadium Total ICAP/MS	5.4	100	120	ug/L	115	(70-130)	20	0.83
MSD2_201501160329	Vanadium Total ICAP/MS	6.2	100	114	ug/L	107	(70-130)	20	4.5
MSD2_201501160329	Vanadium Total ICAP/MS	6.4	100	114	ug/L	107	(70-130)	20	4.5
LCS1	Zinc Total ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Zinc Total ICAP/MS		100	96.8	ug/L	97	(85-115)	20	1.6
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.5	ug/L	103	(50-150)		
MS_201501160326	Zinc Total ICAP/MS	ND	100	108	ug/L	108	(70-130)		
MS_201501160326	Zinc Total ICAP/MS	ND	100	108	ug/L	108	(70-130)		
MS2_201501160329	Zinc Total ICAP/MS	ND	100	94.9	ug/L	95	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501160329	Zinc Total ICAP/MS	ND	100	94.9	ug/L	95	(70-130)		
MSD_201501160326	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	2.8
MSD_201501160326	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	2.8
MSD2_201501160329	Zinc Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)	20	2.9
MSD2_201501160329	Zinc Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)	20	2.9

QC Ref# 815796 - ICPMS Metals by EPA 200.8

Analysis Date: 01/23/2015

LCS1	Antimony dissolved ICAP/MS		50	49.3	ug/L	99	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	49.9	ug/L	100	(85-115)	20	1.2
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	0.967	ug/L	97	(50-150)		
MS_201501210049	Antimony dissolved ICAP/MS	ND	50	47.8	ug/L	96	(70-130)		
MSD_201501210049	Antimony dissolved ICAP/MS	ND	50	43.4	ug/L	87	(70-130)	20	9.7
LCS1	Antimony Total ICAP/MS		50	49.3	ug/L	99	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	1.2
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.967	ug/L	97	(50-150)		
MS_201501210049	Antimony Total ICAP/MS	ND	50	47.8	ug/L	95	(70-130)		
MSD_201501210049	Antimony Total ICAP/MS	ND	50	43.4	ug/L	87	(70-130)	20	9.7
LCS1	Arsenic dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.51
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	0.941	ug/L	94	(50-150)		
MS_201501210049	Arsenic dissolved ICAP/MS	ND	20	20.6	ug/L	101	(70-130)		
MSD_201501210049	Arsenic dissolved ICAP/MS	ND	20	18.6	ug/L	92	(70-130)	20	10
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.51
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.941	ug/L	94	(50-150)		
MS_201501210049	Arsenic Total ICAP/MS	ND	20	20.6	ug/L	101	(70-130)		
MSD_201501210049	Arsenic Total ICAP/MS	ND	20	18.6	ug/L	92	(70-130)	20	10
LCS1	Barium dissolved ICAP/MS		100	99.2	ug/L	99	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	1.8
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	1.96	ug/L	98	(50-150)		
MS_201501210049	Barium dissolved ICAP/MS	ND	100	94.9	ug/L	93	(70-130)		
MSD_201501210049	Barium dissolved ICAP/MS	ND	100	86.6	ug/L	85	(70-130)	20	9.2
LCS1	Barium Total ICAP/MS		100	99.2	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1.8

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.96	ug/L	98	(50-150)		
MS_201501210049	Barium Total ICAP/MS	ND	100	94.9	ug/L	93	(70-130)		
MSD_201501210049	Barium Total ICAP/MS	ND	100	86.6	ug/L	85	(70-130)	20	9.2
LCS1	Beryllium dissolved ICAP/MS		5.0	4.72	ug/L	94	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	4.80	ug/L	96	(85-115)	20	1.7
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	0.925	ug/L	93	(50-150)		
MS_201501210049	Beryllium dissolved ICAP/MS	ND	5.0	4.97	ug/L	99	(70-130)		
MSD_201501210049	Beryllium dissolved ICAP/MS	ND	5.0	4.43	ug/L	88	(70-130)	20	12
LCS1	Beryllium Total ICAP/MS		5.0	4.72	ug/L	94	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.80	ug/L	96	(85-115)	20	1.7
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.925	ug/L	93	(50-150)		
MS_201501210049	Beryllium Total ICAP/MS	ND	5.0	4.97	ug/L	99	(70-130)		
MSD_201501210049	Beryllium Total ICAP/MS	ND	5.0	4.43	ug/L	88	(70-130)	20	12
LCS1	Cadmium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.545	ug/L	109	(50-150)		
MS_201501210049	Cadmium dissolved ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501210049	Cadmium dissolved ICAP/MS	ND	20	18.3	ug/L	91	(70-130)	20	10
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.545	ug/L	109	(50-150)		
MS_201501210049	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201501210049	Cadmium Total ICAP/MS	ND	20	18.3	ug/L	91	(70-130)	20	10
LCS1	Chromium dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	106	ug/L	106	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	0.965	ug/L	97	(50-150)		
MS_201501210049	Chromium dissolved ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501210049	Chromium dissolved ICAP/MS	ND	100	94.2	ug/L	93	(70-130)	20	8.0
LCS1	Chromium Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Chromium Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.965	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501210049	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501210049	Chromium Total ICAP/MS	ND	100	94.2	ug/L	93	(70-130)	20	8.0
MS_201501210049	Cobalt dissolved ICAP/MS	ND	100	98.8	ug/L	99	(70-130)		
MSD_201501210049	Cobalt dissolved ICAP/MS	ND	100	90.0	ug/L	90	(70-130)	20	9.3
LCS1	Cobalt Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.96
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201501210049	Cobalt Total ICAP/MS	ND	100	98.8	ug/L	99	(70-130)		
MSD_201501210049	Cobalt Total ICAP/MS	ND	100	90.0	ug/L	90	(70-130)	20	9.3
LCS1	Copper dissolved ICAP/MS		100	98.0	ug/L	98	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	98.3	ug/L	98	(85-115)	20	0.31
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.92	ug/L	96	(50-150)		
MS_201501210049	Copper dissolved ICAP/MS	ND	100	94.7	ug/L	94	(70-130)		
MSD_201501210049	Copper dissolved ICAP/MS	ND	100	86.6	ug/L	86	(70-130)	20	8.9
LCS1	Copper Total ICAP/MS		100	98.0	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	98.3	ug/L	98	(85-115)	20	0.31
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.92	ug/L	96	(50-150)		
MS_201501210049	Copper Total ICAP/MS	ND	100	94.7	ug/L	94	(70-130)		
MSD_201501210049	Copper Total ICAP/MS	ND	100	86.6	ug/L	86	(70-130)	20	8.9
LCS1	Lead dissolved ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.7	ug/L	98	(85-115)	20	0.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.476	ug/L	95	(50-150)		
MS_201501210049	Lead dissolved ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201501210049	Lead dissolved ICAP/MS	ND	20	16.4	ug/L	82	(70-130)	20	9.3
LCS1	Lead Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.7	ug/L	98	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.476	ug/L	95	(50-150)		
MS_201501210049	Lead Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)		
MSD_201501210049	Lead Total ICAP/MS	ND	20	16.4	ug/L	82	(70-130)	20	9.3
LCS1	Molybdenum dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	0.98
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.86	ug/L	93	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201501210049	Molybdenum dissolved ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MSD_201501210049	Molybdenum dissolved ICAP/MS	ND	100	89.0	ug/L	89	(70-130)	20	9.0
LCS1	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.98
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.86	ug/L	93	(50-150)		
MS_201501210049	Molybdenum Total ICAP/MS	ND	100	97.4	ug/L	97	(70-130)		
MSD_201501210049	Molybdenum Total ICAP/MS	ND	100	89.0	ug/L	89	(70-130)	20	9.0
LCS1	Nickel dissolved ICAP/MS		50	48.6	ug/L	97	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.39	ug/L	88	(50-150)		
MS_201501210049	Nickel dissolved ICAP/MS	ND	50	46.1	ug/L	92	(70-130)		
MSD_201501210049	Nickel dissolved ICAP/MS	ND	50	42.1	ug/L	84	(70-130)	20	9.1
LCS1	Nickel Total ICAP/MS		50	48.6	ug/L	97	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.39	ug/L	88	(50-150)		
MS_201501210049	Nickel Total ICAP/MS	ND	50	46.1	ug/L	92	(70-130)		
MSD_201501210049	Nickel Total ICAP/MS	ND	50	42.1	ug/L	84	(70-130)	20	9.1
LCS1	Selenium dissolved ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	20.1	ug/L	100	(85-115)	20	0.50
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	4.76	ug/L	95	(50-150)		
MS_201501210049	Selenium dissolved ICAP/MS	ND	20	22.2	ug/L	111	(70-130)		
MSD_201501210049	Selenium dissolved ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	9.9
LCS1	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.1	ug/L	100	(85-115)	20	0.50
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.76	ug/L	95	(50-150)		
MS_201501210049	Selenium Total ICAP/MS	ND	20	22.2	ug/L	111	(70-130)		
MSD_201501210049	Selenium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	9.9
LCS1	Thallium dissolved ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.98
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501210049	Thallium dissolved ICAP/MS	ND	20	18.3	ug/L	92	(70-130)		
MSD_201501210049	Thallium dissolved ICAP/MS	ND	20	16.6	ug/L	83	(70-130)	20	9.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Thallium Total ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.98
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.976	ug/L	98	(50-150)		
MS_201501210049	Thallium Total ICAP/MS	ND	20	18.3	ug/L	91	(70-130)		
MSD_201501210049	Thallium Total ICAP/MS	ND	20	16.6	ug/L	83	(70-130)	20	9.7
LCS1	Vanadium Dissolved ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	2.87	ug/L	96	(50-150)		
MS_201501210049	Vanadium Dissolved ICAP/MS	4.5	100	106	ug/L	102	(70-130)		
MSD_201501210049	Vanadium Dissolved ICAP/MS	4.5	100	97.0	ug/L	93	(70-130)	20	8.9
LCS1	Vanadium Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.87	ug/L	96	(50-150)		
MS_201501210049	Vanadium Total ICAP/MS	4.5	100	106	ug/L	101	(70-130)		
MSD_201501210049	Vanadium Total ICAP/MS	4.5	100	97.0	ug/L	93	(70-130)	20	8.9
LCS1	Zinc dissolved ICAP/MS		100	96.0	ug/L	96	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	95.6	ug/L	96	(85-115)	20	0.42
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	17.4	ug/L	87	(50-150)		
MS_201501210049	Zinc dissolved ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501210049	Zinc dissolved ICAP/MS	ND	100	96.2	ug/L	96	(70-130)	20	9.7
LCS1	Zinc Total ICAP/MS		100	96.0	ug/L	96	(85-115)		
LCS2	Zinc Total ICAP/MS		100	95.6	ug/L	96	(85-115)	20	0.42
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	17.4	ug/L	87	(50-150)		
MS_201501210049	Zinc Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501210049	Zinc Total ICAP/MS	ND	100	96.2	ug/L	96	(70-130)	20	9.7

QC Ref# 816085 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 01/22/2015

LCS1	Total phosphorus as P		0.4	0.370	mg/L	93	(90-110)		
LCS2	Total phosphorus as P		0.4	0.373	mg/L	93	(90-110)	20	0.81
MBLK	Total phosphorus as P			0.0142	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0264	mg/L	132	(50-150)		
MS_201501090438	Total phosphorus as P	1.6	0.4	3.56	mg/L	99	(90-110)		
MS_201501140553	Total phosphorus as P	ND	0.4	0.314	mg/L	<u>77</u>	(90-110)		
MSD_201501090438	Total phosphorus as P	1.6	0.4	3.64	mg/L	103	(90-110)	20	1.9

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201501140553	Total phosphorus as P	ND	0.4	0.313	mg/L	76	(90-110)	20	0.32
QC Ref# 816515 - ICPMS Metals by EPA 200.8						Analysis Date: 01/27/2015			
LCS1	Antimony Total ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.8	ug/L	96	(85-115)	20	0.42
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201501190158	Antimony Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MS_201501190158	Antimony Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MS2_201501190155	Antimony Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)		
MS2_201501190155	Antimony Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)		
MSD_201501190158	Antimony Total ICAP/MS	ND	50	43.2	ug/L	86	(70-130)	20	5.2
MSD_201501190158	Antimony Total ICAP/MS	ND	50	43.2	ug/L	86	(70-130)	20	5.2
MSD2_201501190155	Antimony Total ICAP/MS	ND	50	44.4	ug/L	89	(70-130)	20	13
MSD2_201501190155	Antimony Total ICAP/MS	ND	50	44.4	ug/L	89	(70-130)	20	13
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.980	ug/L	98	(50-150)		
MS_201501190158	Arsenic Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)		
MS_201501190158	Arsenic Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)		
MS2_201501190155	Arsenic Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)		
MS2_201501190155	Arsenic Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)		
MSD_201501190158	Arsenic Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	6.3
MSD_201501190158	Arsenic Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	6.3
MSD2_201501190155	Arsenic Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	11
MSD2_201501190155	Arsenic Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	11
LCS1	Barium Total ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	0.10
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201501190158	Barium Total ICAP/MS	ND	100	93.2	ug/L	93	(70-130)		
MS_201501190158	Barium Total ICAP/MS	ND	100	93.2	ug/L	93	(70-130)		
MS2_201501190155	Barium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201501190155	Barium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201501190158	Barium Total ICAP/MS	ND	100	88.7	ug/L	89	(70-130)	20	5.0
MSD_201501190158	Barium Total ICAP/MS	ND	100	88.7	ug/L	89	(70-130)	20	5.0
MSD2_201501190155	Barium Total ICAP/MS	ND	100	90.4	ug/L	90	(70-130)	20	12

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201501190155	Barium Total ICAP/MS	ND	100	90.4	ug/L	90	(70-130)	20	12
LCS1	Beryllium Total ICAP/MS		5.0	4.84	ug/L	97	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.82	ug/L	96	(85-115)	20	0.62
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.962	ug/L	96	(50-150)		
MS_201501190158	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)		
MS_201501190158	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)		
MS2_201501190155	Beryllium Total ICAP/MS	ND	5.0	5.22	ug/L	104	(70-130)		
MS2_201501190155	Beryllium Total ICAP/MS	ND	5.0	5.22	ug/L	104	(70-130)		
MSD_201501190158	Beryllium Total ICAP/MS	ND	5.0	4.45	ug/L	89	(70-130)	20	6.5
MSD_201501190158	Beryllium Total ICAP/MS	ND	5.0	4.45	ug/L	89	(70-130)	20	6.5
MSD2_201501190155	Beryllium Total ICAP/MS	ND	5.0	4.51	ug/L	90	(70-130)	20	15
MSD2_201501190155	Beryllium Total ICAP/MS	ND	5.0	4.51	ug/L	90	(70-130)	20	15
LCS1	Cadmium Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.499	ug/L	100	(50-150)		
MS_201501190158	Cadmium Total ICAP/MS	ND	20	19.5	ug/L	98	(70-130)		
MS_201501190158	Cadmium Total ICAP/MS	ND	20	19.5	ug/L	98	(70-130)		
MS2_201501190155	Cadmium Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)		
MS2_201501190155	Cadmium Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)		
MSD_201501190158	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	7.5
MSD_201501190158	Cadmium Total ICAP/MS	ND	20	18.0	ug/L	90	(70-130)	20	7.5
MSD2_201501190155	Cadmium Total ICAP/MS	ND	20	18.5	ug/L	93	(70-130)	20	13
MSD2_201501190155	Cadmium Total ICAP/MS	ND	20	18.5	ug/L	93	(70-130)	20	13
LCS1	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.96
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.824	ug/L	82	(50-150)		
MS_201501190158	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS_201501190158	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201501190155	Chromium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201501190155	Chromium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MSD_201501190158	Chromium Total ICAP/MS	ND	100	91.1	ug/L	91	(70-130)	20	6.2
MSD_201501190158	Chromium Total ICAP/MS	ND	100	91.1	ug/L	91	(70-130)	20	6.2
MSD2_201501190155	Chromium Total ICAP/MS	ND	100	93.1	ug/L	93	(70-130)	20	12
MSD2_201501190155	Chromium Total ICAP/MS	ND	100	93.1	ug/L	93	(70-130)	20	12
LCS1	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.93	ug/L	96	(50-150)		
MS_201501190158	Cobalt Total ICAP/MS	ND	100	96.1	ug/L	96	(70-130)		
MS2_201501190155	Cobalt Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MSD_201501190158	Cobalt Total ICAP/MS	ND	100	90.3	ug/L	90	(70-130)	20	6.2
MSD2_201501190155	Cobalt Total ICAP/MS	ND	100	92.9	ug/L	93	(70-130)	20	12
LCS1	Copper Total ICAP/MS		100	96.0	ug/L	96	(85-115)		
LCS2	Copper Total ICAP/MS		100	96.8	ug/L	97	(85-115)	20	0.83
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201501190158	Copper Total ICAP/MS	7.4	100	98.0	ug/L	91	(70-130)		
MS2_201501190155	Copper Total ICAP/MS	ND	100	99.9	ug/L	99	(70-130)		
MSD_201501190158	Copper Total ICAP/MS	7.4	100	92.1	ug/L	85	(70-130)	20	6.2
MSD2_201501190155	Copper Total ICAP/MS	ND	100	88.4	ug/L	87	(70-130)	20	12
LCS1	Lead Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	1.5
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.544	ug/L	109	(50-150)		
MS_201501190158	Lead Total ICAP/MS	ND	20	18.4	ug/L	91	(70-130)		
MS2_201501190155	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201501190158	Lead Total ICAP/MS	ND	20	17.3	ug/L	85	(70-130)	20	6.2
MSD2_201501190155	Lead Total ICAP/MS	ND	20	17.6	ug/L	88	(70-130)	20	13
LCS1	Molybdenum Total ICAP/MS		100	99.8	ug/L	100	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.7	ug/L	100	(85-115)	20	0.10
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.90	ug/L	95	(50-150)		
MS_201501190158	Molybdenum Total ICAP/MS	ND	100	94.9	ug/L	95	(70-130)		
MS_201501190158	Molybdenum Total ICAP/MS	ND	100	94.9	ug/L	95	(70-130)		
MS2_201501190155	Molybdenum Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MS2_201501190155	Molybdenum Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MSD_201501190158	Molybdenum Total ICAP/MS	ND	100	89.1	ug/L	89	(70-130)	20	6.3
MSD_201501190158	Molybdenum Total ICAP/MS	ND	100	89.1	ug/L	89	(70-130)	20	6.3
MSD2_201501190155	Molybdenum Total ICAP/MS	ND	100	90.5	ug/L	90	(70-130)	20	13
MSD2_201501190155	Molybdenum Total ICAP/MS	ND	100	90.5	ug/L	90	(70-130)	20	13
LCS1	Nickel Total ICAP/MS		50	48.3	ug/L	97	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.0	ug/L	96	(85-115)	20	0.62
MBLK	Nickel Total ICAP/MS			<5	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Nickel Total ICAP/MS		5.0	4.87	ug/L	97	(50-150)		
MS_201501190158	Nickel Total ICAP/MS	ND	50	44.2	ug/L	88	(70-130)		
MS_201501190158	Nickel Total ICAP/MS	ND	50	44.2	ug/L	88	(70-130)		
MS2_201501190155	Nickel Total ICAP/MS	ND	50	48.1	ug/L	96	(70-130)		
MS2_201501190155	Nickel Total ICAP/MS	ND	50	48.1	ug/L	96	(70-130)		
MSD_201501190158	Nickel Total ICAP/MS	ND	50	42.0	ug/L	84	(70-130)	20	5.1
MSD_201501190158	Nickel Total ICAP/MS	ND	50	42.0	ug/L	84	(70-130)	20	5.1
MSD2_201501190155	Nickel Total ICAP/MS	ND	50	42.9	ug/L	86	(70-130)	20	11
MSD2_201501190155	Nickel Total ICAP/MS	ND	50	42.9	ug/L	86	(70-130)	20	11
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	3.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.88	ug/L	98	(50-150)		
MS_201501190158	Selenium Total ICAP/MS	ND	20	22.7	ug/L	112	(70-130)		
MS_201501190158	Selenium Total ICAP/MS	ND	20	22.7	ug/L	112	(70-130)		
MS2_201501190155	Selenium Total ICAP/MS	ND	20	23.8	ug/L	118	(70-130)		
MS2_201501190155	Selenium Total ICAP/MS	ND	20	23.8	ug/L	118	(70-130)		
MSD_201501190158	Selenium Total ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	9.2
MSD_201501190158	Selenium Total ICAP/MS	ND	20	20.7	ug/L	102	(70-130)	20	9.2
MSD2_201501190155	Selenium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	15
MSD2_201501190155	Selenium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	15
LCS1	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.935	ug/L	94	(50-150)		
MS_201501190158	Thallium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MS_201501190158	Thallium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MS2_201501190155	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MS2_201501190155	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MSD_201501190158	Thallium Total ICAP/MS	ND	20	17.2	ug/L	86	(70-130)	20	5.7
MSD_201501190158	Thallium Total ICAP/MS	ND	20	17.2	ug/L	86	(70-130)	20	5.7
MSD2_201501190155	Thallium Total ICAP/MS	ND	20	17.5	ug/L	87	(70-130)	20	12
MSD2_201501190155	Thallium Total ICAP/MS	ND	20	17.5	ug/L	87	(70-130)	20	12
LCS1	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.99
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.86	ug/L	95	(50-150)		
MS_201501190158	Vanadium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201501190155	Vanadium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201501190158	Vanadium Total ICAP/MS	ND	100	91.3	ug/L	91	(70-130)	20	5.8
MSD2_201501190155	Vanadium Total ICAP/MS	ND	100	93.7	ug/L	94	(70-130)	20	12
LCS1	Zinc Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Zinc Total ICAP/MS		100	99.9	ug/L	100	(85-115)	20	0.20
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	16.4	ug/L	82	(50-150)		
MS_201501190158	Zinc Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS_201501190158	Zinc Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201501190155	Zinc Total ICAP/MS	ND	100	111	ug/L	111	(70-130)		
MS2_201501190155	Zinc Total ICAP/MS	ND	100	111	ug/L	111	(70-130)		
MSD_201501190158	Zinc Total ICAP/MS	ND	100	94.7	ug/L	94	(70-130)	20	7.4
MSD_201501190158	Zinc Total ICAP/MS	ND	100	94.7	ug/L	94	(70-130)	20	7.4
MSD2_201501190155	Zinc Total ICAP/MS	ND	100	98.2	ug/L	98	(70-130)	20	12
MSD2_201501190155	Zinc Total ICAP/MS	ND	100	98.2	ug/L	98	(70-130)	20	12

QC Ref# 817189 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 01/28/2015

LCS1	Total phosphorus as P		0.4	0.375	mg/L	94	(90-110)		
LCS2	Total phosphorus as P		0.4	0.375	mg/L	94	(90-110)	20	0.0
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0229	mg/L	115	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

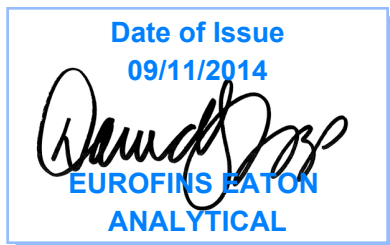
750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 494609
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 494609
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **August 19, 2014 at 1035**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date																											
201408190104	OL3P	08/18/2014 0600																											
	<table border="1"> <tr> <td>@ICPMS</td> <td>@ICPMS</td> <td>@HAA6</td> </tr> <tr> <td>@THM524</td> <td>Alkalinity in CaCO3 units</td> <td>Ammonia Nitrogen</td> </tr> <tr> <td>Bicarb.Alkalinity as HCO3,calc</td> <td>Biochemical Oxygen Demand,Totl</td> <td>Calcium Total ICAP</td> </tr> <tr> <td>Chemical Oxygen Demand (COD)</td> <td>Chloride</td> <td>Free Chlorine Residual</td> </tr> <tr> <td>Magnesium Total ICAP</td> <td>Nitrate as Nitrogen by IC</td> <td>Nitrite Nitrogen by IC</td> </tr> <tr> <td>Orthophosphate as P (OPO4)</td> <td>PH (H3=past HT not compliant)</td> <td>Sodium Total ICAP</td> </tr> <tr> <td>Specific Conductance</td> <td>Sulfate</td> <td>Total Chlorine Residual</td> </tr> <tr> <td>Total Kjeldahl Nitrogen</td> <td>Total Organic Halogen</td> <td>Total phosphorus as P</td> </tr> <tr> <td>Total Suspended Solids (TSS)</td> <td></td> <td></td> </tr> </table>	@ICPMS	@ICPMS	@HAA6	@THM524	Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)	Chloride	Free Chlorine Residual	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP	Specific Conductance	Sulfate	Total Chlorine Residual	Total Kjeldahl Nitrogen	Total Organic Halogen	Total phosphorus as P	Total Suspended Solids (TSS)			
@ICPMS	@ICPMS	@HAA6																											
@THM524	Alkalinity in CaCO3 units	Ammonia Nitrogen																											
Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP																											
Chemical Oxygen Demand (COD)	Chloride	Free Chlorine Residual																											
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Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP																											
Specific Conductance	Sulfate	Total Chlorine Residual																											
Total Kjeldahl Nitrogen	Total Organic Halogen	Total phosphorus as P																											
Total Suspended Solids (TSS)																													

Test Description

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

@HAA6 -- Haloacetic Acids

@THM524 -- Volatile Organics by GCMS

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395

Origin ID: IYKA



Olanca, CA 93549

Ship Date: 18AUG14
ActWgt: 25.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158

BILL SENDER

David
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

Ref #
Invoice #
PO #
Dept #

2 of 4

TUE - 19 AUG AA
STANDARD OVERNIGHT

MPS# 7708 5449 6336

0263

Mstr# 7708 5449 6461

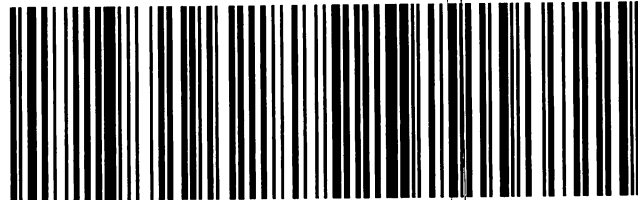
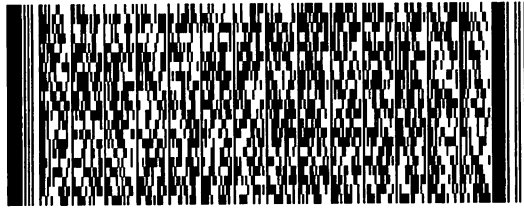
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 Fax: (626) 386-1101
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Laboratory Hits
 Report: 494609

Crystal Geysler Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/19/2014 1035

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201408190104	<u>OL3P</u>				
08/21/2014 13:32	Alkalinity in CaCO3 units		51		mg/L	2
08/21/2014 15:21	Antimony dissolved ICAP/MS		1.6		ug/L	1
08/25/2014 17:20	Antimony Total ICAP/MS		1.8	6	ug/L	1
08/21/2014 15:21	Arsenic dissolved ICAP/MS		2.8		ug/L	1
08/25/2014 17:20	Arsenic Total ICAP/MS		3.6	10	ug/L	1
08/21/2014 15:21	Barium dissolved ICAP/MS		5.4		ug/L	2
08/25/2014 17:20	Barium Total ICAP/MS		6.3	2000	ug/L	2
08/22/2014 12:03	Bicarb. Alkalinity as HCO3calc		62		mg/L	2
08/19/2014 13:17	Biochemical Oxygen Demand, Totl		3.5		mg/L	3
08/22/2014 16:54	Calcium Total ICAP		19		mg/L	1
08/22/2014 10:41	Chemical Oxygen Demand (COD)		7.0		mg/L	5
08/19/2014 21:45	Chloride		3.0	250	mg/L	1
08/22/2014 16:54	Magnesium Total ICAP		2.0		mg/L	0.1
08/21/2014 15:21	Molybdenum dissolved ICAP/MS		7.1		ug/L	2
08/25/2014 17:20	Molybdenum Total ICAP/MS		6.8		ug/L	2
08/19/2014 21:45	Nitrate as Nitrogen by IC		0.83	10	mg/L	0.1
08/19/2014 15:55	Orthophosphate as P		1.7		mg/L	0.05
08/21/2014 13:32	PH (H3=past HT not compliant)		7.5		Units	0.1
08/22/2014 16:54	Sodium Total ICAP		20		mg/L	1
08/21/2014 13:32	Specific Conductance, 25 C		210		umho/cm	2
08/19/2014 21:45	Sulfate		29	250	mg/L	0.5
08/22/2014 12:35	Total phosphorus as P		2.0		mg/L	0.02

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 494609

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/19/2014 1035

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
OL3P (201408190104)						Sampled on 08/18/2014 0600		
EPA 200.8 - ICPMS Metals								
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Antimony dissolved ICAP/MS	1.6	ug/L	1
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Antimony Total ICAP/MS	1.8	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Arsenic dissolved ICAP/MS	2.8	ug/L	1
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Arsenic Total ICAP/MS	3.6	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Barium dissolved ICAP/MS	5.4	ug/L	2
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Barium Total ICAP/MS	6.3	ug/L	2
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Molybdenum dissolved ICAP/MS	7.1	ug/L	2
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Molybdenum Total ICAP/MS	6.8	ug/L	2
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5
8/19/2014	08/27/2014	20:20	788821	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3
8/19/2014	08/21/2014	15:21	787921	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20
8/19/2014	08/25/2014	17:20	788627	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20
EPA 200.7 - ICP Metals								
8/19/2014	08/22/2014	16:54	788199	(EPA 200.7)	Calcium Total ICAP	19	mg/L	1

Rounding on totals after summation.
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Laboratory Data
 Report: 494609

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/19/2014 1035

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/19/2014	08/22/2014	16:54 788199	(EPA 200.7)	Magnesium Total ICAP	2.0	mg/L	0.1	1
8/19/2014	08/22/2014	16:54 788199	(EPA 200.7)	Sodium Total ICAP	20	mg/L	1	1
SW9020/SM5320 - Total Organic Halides								
9/8/2014	09/08/2014	17:33 791354	(SW9020/SM5320)	Total Organic Halides Average	ND (B4)	ug/L	10	1
9/8/2014	09/08/2014	17:33 791354	(SW9020/SM5320)	Total Organic Halides Rep 1	ND (B4,H1)	ug/L	10	1
9/8/2014	09/08/2014	17:33 791354	(SW9020/SM5320)	Total Organic Halides Rep 2	ND (B4,H1)	ug/L	10	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	08/22/2014	12:03	(SM2330B)	Bicarb.Alkalinity as HCO3calc	62	mg/L	2	1
SM 6251B - Haloacetic Acids								
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	1,2,3-Trichloropropane	96	%		1
8/21/2014	08/27/2014	00:48 788279	(SM 6251B)	2,3-Dibromopropionic acid	104	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	08/19/2014	21:45 787523	(EPA 300.0)	Nitrate as Nitrogen by IC	0.83	mg/L	0.1	1
	08/19/2014	21:45 787523	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	08/19/2014	21:45 787526	(EPA 300.0)	Chloride	3.0	mg/L	1	1
	08/19/2014	21:45 787526	(EPA 300.0)	Sulfate	29	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	08/22/2014	12:35 788609	(SM4500-PE/EPA 365.1)	Total phosphorus as P	2.0	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	08/22/2014	9:41 788145	(EPA 351.2)	Kjeldahl Nitrogen	ND	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	08/28/2014	16:31 788751	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	1,2-Dichloroethane-d4	110	%		1

Rounding on totals after summation.
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Laboratory Data
 Report: 494609

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/19/2014 1035

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	4-Bromofluorobenzene	94	%		1
8/19/2014	08/19/2014	16:12 787643	(EPA 524.2)	Toluene-d8	95	%		1
SM 2320B - Alkalinity in CaCO3 units								
	08/21/2014	13:32 787855	(SM 2320B)	Alkalinity in CaCO3 units	51	mg/L	2	1
SM4500-HB - PH (H3=past HT not compliant)								
	08/21/2014	13:32 788153	(SM4500-HB)	PH (H3=past HT not compliant)	7.5	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	08/21/2014	12:43 787902	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	08/22/2014	10:41 787275	(EPA 410.4)	Chemical Oxygen Demand (COD)	7.0	mg/L	5	1
SM2510B - Specific Conductance								
	08/21/2014	13:32 788171	(SM2510B)	Specific Conductance, 25 C	210	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	08/19/2014	13:17 787499	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	3.5	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	08/19/2014	15:55 787468	(4500P-E/365.1)	Orthophosphate as P	1.7	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	08/19/2014	13:00 787323	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	08/20/2014	13:00 787324	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
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Flags Legend:

B4 - Target analyte detected in blank at or above method acceptance criteria.

H1 - Sample analysis performed past holding time. Data not acceptable for regulatory compliance.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

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Crystal Geysler Roxane

QC Ref # 787275 - Chemical Oxygen Demand (COD)	Analysis Date: 08/22/2014
201408190104 OL3P	Analyzed by: MAL
QC Ref # 787323 - Total Chlorine Residual (H3=past HT not complian	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: A4H
QC Ref # 787324 - Free Chlorine Residual (H3=past HT not complian	Analysis Date: 08/20/2014
201408190104 OL3P	Analyzed by: A4H
QC Ref # 787468 - Orthophosphate as P (OPO4)	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: 6Q4
QC Ref # 787499 - Biochemical Oxygen Demand,Totl	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: MIA8
QC Ref # 787523 - Nitrate, Nitrite by EPA 300.0	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: CYP
QC Ref # 787526 - Chloride, Sulfate by EPA 300.0	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: CYP
QC Ref # 787643 - Volatile Organics by GCMS	Analysis Date: 08/19/2014
201408190104 OL3P	Analyzed by: KCP
QC Ref # 787855 - Alkalinity in CaCO3 units	Analysis Date: 08/21/2014
201408190104 OL3P	Analyzed by: JMO
QC Ref # 787902 - Total Suspended Solids (TSS)	Analysis Date: 08/21/2014
201408190104 OL3P	Analyzed by: W8E1
QC Ref # 787921 - ICPMS Metals	Analysis Date: 08/21/2014
201408190104 OL3P	Analyzed by: SXX
QC Ref # 788145 - Total Kjeldahl Nitrogen	Analysis Date: 08/22/2014
201408190104 OL3P	Analyzed by: MYH
QC Ref # 788153 - PH (H3=past HT not compliant)	Analysis Date: 08/21/2014
201408190104 OL3P	Analyzed by: JMO
QC Ref # 788171 - Specific Conductance	Analysis Date: 08/21/2014
201408190104 OL3P	Analyzed by: JMO
QC Ref # 788199 - ICP Metals	Analysis Date: 08/22/2014
201408190104 OL3P	Analyzed by: NINA
QC Ref # 788279 - Haloacetic Acids	Analysis Date: 08/27/2014
201408190104 OL3P	Analyzed by: JHL
QC Ref # 788609 - Total phosphorus as P (T-P)	Analysis Date: 08/22/2014
201408190104 OL3P	Analyzed by: KXS
QC Ref # 788627 - ICPMS Metals	Analysis Date: 08/25/2014
201408190104 OL3P	Analyzed by: AZS

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Crystal Geysers Roxane

QC Ref # 788751 - Ammonia Nitrogen

201408190104 OL3P

Analysis Date: 08/28/2014

Analyzed by: MYH

QC Ref # 788821 - ICPMS Metals

201408190104 OL3P

Analysis Date: 08/27/2014

Analyzed by: AZS

QC Ref # 791354 - Total Organic Halides

201408190104 OL3P

Analysis Date: 09/08/2014

Analyzed by: MYH

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 787275 - Chemical Oxygen Demand (COD) by EPA 410.4						Analysis Date: 08/22/2014			
LCS1	Chemical Oxygen Demand (COD)		50	47.0	mg/L	94	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	50.0	mg/L	100	(90-110)	20	6.2
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	7.00	mg/L	140	(50-150)		
MS_201408190104	Chemical Oxygen Demand (COD)	7.0	50	56.0	mg/L	98	(90-110)		
MSD_201408190104	Chemical Oxygen Demand (COD)	7.0	50	56.0	mg/L	98	(90-110)	20	0.0
QC Ref# 787323 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 08/19/2014			
LCS1	Total Chlorine Residual		1.0	0.980	mg/L	98	(85-115)		
LCS2	Total Chlorine Residual			1.01	mg/L				
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 787324 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH						Analysis Date: 08/20/2014			
LCS1	Free Chlorine Residual		1.0	0.960	mg/L	96	(85-115)		
LCS2	Free Chlorine Residual			0.950	mg/L				
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 787468 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 08/19/2014			
LCS1	Orthophosphate as P		0.25	0.239	mg/L	96	(90-110)		
LCS2	Orthophosphate as P		0.25	0.248	mg/L	99	(90-110)	20	3.7
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0130	mg/L	130	(50-150)		
MS_201408190154	Orthophosphate as P	0.11	0.5	0.615	mg/L	101	(90-110)		
MS_201408190098	Orthophosphate as P	0.017	0.5	0.509	mg/L	98	(90-110)		
MSD_201408190154	Orthophosphate as P	0.11	0.5	0.617	mg/L	102	(90-110)	20	0.33
MSD_201408190098	Orthophosphate as P	0.017	0.5	0.510	mg/L	99	(90-110)	20	0.20
QC Ref# 787499 - Biochemical Oxygen Demand,Totl by SM5210B 405.1						Analysis Date: 08/19/2014			
DUP1_201408180309	Biochemical Oxygen DemandTotl	180		180	mg/L		(0-20)	20	1.3
DUP2_201408190145	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	182	mg/L	92	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				
QC Ref# 787523 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 08/19/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.49	mg/L	100	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.50	mg/L	100	(90-110)	20	0.80

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0468	mg/L	94	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0129	mg/L	103	(50-150)		
MS_201408200628	Nitrate as Nitrogen by IC	0.11	1.3	2.23	mg/L	<u>169</u>	(80-120)		
MS_201408190272	Nitrate as Nitrogen by IC	ND	1.3	1.34	mg/L	100	(80-120)		
MSD_201408190272	Nitrate as Nitrogen by IC	ND	1.3	1.34	mg/L	101	(80-120)	20	0.0
MSD_201408200628	Nitrate as Nitrogen by IC	0.11	1.3	2.25	mg/L	<u>171</u>	(80-120)	20	0.89
LCS1	Nitrite Nitrogen by IC		1.0	0.984	mg/L	98	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.992	mg/L	99	(90-110)	20	0.81
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0497	mg/L	99	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0124	mg/L	99	(50-150)		
MS_201408190272	Nitrite Nitrogen by IC	ND	0.5	0.480	mg/L	96	(80-120)		
MS_201408200628	Nitrite Nitrogen by IC	ND	0.5	0	mg/L	<u>0</u>	(80-120)		
MSD_201408200628	Nitrite Nitrogen by IC	ND	0.5	0	mg/L	<u>0</u>	(80-120)	20	<u>1000</u>
MSD_201408190272	Nitrite Nitrogen by IC	ND	0.5	0.487	mg/L	97	(80-120)	20	1.5

QC Ref# 787526 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 08/19/2014

LCS1	Chloride		25	24.4	mg/L	98	(90-110)		
LCS2	Chloride		25	24.6	mg/L	99	(90-110)	20	0.82
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.417	mg/L	83	(50-150)		
MS_201408190272	Chloride	11	13	23.9	mg/L	103	(80-120)		
MSD_201408190272	Chloride	11	13	23.9	mg/L	103	(80-120)	20	0.0
LCS1	Sulfate		50	51.9	mg/L	104	(90-110)		
LCS2	Sulfate		50	52.3	mg/L	105	(90-110)	20	0.77
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.913	mg/L	91	(50-150)		
MRLLW	Sulfate		0.25	0.255	mg/L	102	(50-150)		
MS_201408190272	Sulfate	22	25	48.6	mg/L	108	(80-120)		
MS_201408200631	Sulfate	4.8	25	31.1	mg/L	105	(80-120)		
MSD_201408190272	Sulfate	22	25	48.6	mg/L	108	(80-120)	20	0.0
MSD_201408200631	Sulfate	4.8	25	31.3	mg/L	106	(80-120)	20	0.64

QC Ref# 787643 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 08/19/2014

LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	4-Bromofluorobenzene (S)			99.6	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			96.8	%	97	(70-130)		
LCS1	Bromodichloromethane		5.0	4.61	ug/L	92	(70-130)		
LCS2	Bromodichloromethane		5.0	4.73	ug/L	95	(70-130)	20	2.6
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Bromoform		5.0	4.85	ug/L	97	(70-130)		
LCS2	Bromoform		5.0	4.79	ug/L	96	(70-130)	20	1.2
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.330	ug/L	66	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.65	ug/L	93	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.85	ug/L	97	(70-130)	20	4.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.340	ug/L	68	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.82	ug/L	96	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.16	ug/L	103	(70-130)	20	6.8
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.460	ug/L	92	(50-150)		
LCS1	Toluene-d8 (S)			97.0	%	97	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			91.4	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			94.6	%	95	(70-130)		

QC Ref# 787855 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 08/21/2014

LCS1	Alkalinity in CaCO3 units		100	96.0	mg/L	96	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	97.4	mg/L	97	(90-110)	20	1.5
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.66	mg/L	83	(50-150)		
MS_201408180118	Alkalinity in CaCO3 units	180	100	273	mg/L	92	(80-120)		
MS_201408220364	Alkalinity in CaCO3 units	14	100	109	mg/L	96	(80-120)		
MSD_201408180118	Alkalinity in CaCO3 units	180	100	272	mg/L	92	(80-120)	20	0.37
MSD_201408220364	Alkalinity in CaCO3 units	14	100	110	mg/L	96	(80-120)	20	0.91

QC Ref# 787902 - Total Suspended Solids (TSS) by SM 2540D

Analysis Date: 08/21/2014

DUP_201408200305	Total Suspended Solids (TSS)	20		22.0	mg/L		(0-10)	10	9.5
DUP_201408190090	Total Suspended Solids (TSS)	ND		8.00	mg/L		(0-10)	10	0.0
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Total Suspended Solids (TSS)		175	176	mg/L	101	(71-107)	20	3.5
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	11.0	mg/L	110	(50-150)		
QC Ref# 787921 - ICPMS Metals by EPA 200.8						Analysis Date: 08/21/2014			
LCS1	Antimony dissolved ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	51.6	ug/L	103	(85-115)	20	2.8
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201408190709	Antimony dissolved ICAP/MS	ND	50	48.6	ug/L	97	(70-130)		
MSD_201408190709	Antimony dissolved ICAP/MS	ND	50	48.0	ug/L	96	(70-130)	20	1.2
LCS1	Antimony Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.6	ug/L	103	(85-115)	20	2.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201408190709	Antimony Total ICAP/MS	ND	50	48.6	ug/L	97	(70-130)		
MS2_201408190794	Antimony Total ICAP/MS	ND	50	48.6	ug/L	97	(70-130)		
MSD_201408190709	Antimony Total ICAP/MS	ND	50	48.0	ug/L	96	(70-130)	20	1.2
MSD2_201408190794	Antimony Total ICAP/MS	ND	50	46.8	ug/L	93	(70-130)	20	4.0
LCS1	Arsenic dissolved ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	21.0	ug/L	105	(85-115)	20	2.4
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.08	ug/L	109	(50-150)		
MS_201408190709	Arsenic dissolved ICAP/MS	1.2	20	23.7	ug/L	113	(70-130)		
MSD_201408190709	Arsenic dissolved ICAP/MS	1.2	20	23.5	ug/L	111	(70-130)	20	0.85
LCS1	Arsenic Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.0	ug/L	105	(85-115)	20	2.4
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.08	ug/L	109	(50-150)		
MS_201408190709	Arsenic Total ICAP/MS	1.2	20	23.7	ug/L	113	(70-130)		
MS2_201408190794	Arsenic Total ICAP/MS	1.2	20	22.9	ug/L	109	(70-130)		
MSD_201408190709	Arsenic Total ICAP/MS	1.2	20	23.5	ug/L	111	(70-130)	20	0.85
MSD2_201408190794	Arsenic Total ICAP/MS	1.2	20	22.3	ug/L	106	(70-130)	20	2.6
LCS1	Barium dissolved ICAP/MS		100	99.8	ug/L	100	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	2.2
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201408190709	Barium dissolved ICAP/MS	36	100	131	ug/L	95	(70-130)		
MSD_201408190709	Barium dissolved ICAP/MS	36	100	128	ug/L	91	(70-130)	20	2.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Barium Total ICAP/MS		100	99.8	ug/L	100	(85-115)		
LCS2	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.2
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201408190709	Barium Total ICAP/MS	36	100	131	ug/L	95	(70-130)		
MS2_201408190794	Barium Total ICAP/MS	52	100	146	ug/L	93	(70-130)		
MSD_201408190709	Barium Total ICAP/MS	36	100	128	ug/L	91	(70-130)	20	2.3
MSD2_201408190794	Barium Total ICAP/MS	52	100	143	ug/L	91	(70-130)	20	2.1
LCS1	Beryllium dissolved ICAP/MS		5.0	4.74	ug/L	95	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	4.90	ug/L	98	(85-115)	20	3.3
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201408190709	Beryllium dissolved ICAP/MS	ND	5.0	4.91	ug/L	98	(70-130)		
MSD_201408190709	Beryllium dissolved ICAP/MS	ND	5.0	4.86	ug/L	97	(70-130)	20	0.82
LCS1	Beryllium Total ICAP/MS		5.0	4.74	ug/L	95	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.90	ug/L	98	(85-115)	20	3.3
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201408190709	Beryllium Total ICAP/MS	ND	5.0	4.91	ug/L	98	(70-130)		
MS2_201408190794	Beryllium Total ICAP/MS	ND	5.0	5.03	ug/L	101	(70-130)		
MSD_201408190709	Beryllium Total ICAP/MS	ND	5.0	4.86	ug/L	97	(70-130)	20	0.82
MSD2_201408190794	Beryllium Total ICAP/MS	ND	5.0	4.77	ug/L	96	(70-130)	20	5.3
LCS1	Cadmium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	21.0	ug/L	105	(85-115)	20	3.9
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.584	ug/L	117	(50-150)		
MS_201408190709	Cadmium dissolved ICAP/MS	ND	20	19.1	ug/L	96	(70-130)		
MSD_201408190709	Cadmium dissolved ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	0.52
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.0	ug/L	105	(85-115)	20	3.9
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.584	ug/L	117	(50-150)		
MS_201408190709	Cadmium Total ICAP/MS	ND	20	19.1	ug/L	96	(70-130)		
MS2_201408190794	Cadmium Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)		
MSD_201408190709	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	0.52
MSD2_201408190794	Cadmium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)	20	1.1
LCS1	Chromium dissolved ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	2.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.00	ug/L	100	(50-150)		
MS_201408190709	Chromium dissolved ICAP/MS	6.0	100	99.6	ug/L	94	(70-130)		
MSD_201408190709	Chromium dissolved ICAP/MS	6.0	100	98.2	ug/L	92	(70-130)	20	1.5
LCS1	Chromium Total ICAP/MS		100	98.4	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	2.6
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.00	ug/L	100	(50-150)		
MS_201408190709	Chromium Total ICAP/MS	6	100	99.6	ug/L	94	(70-130)		
MS2_201408190794	Chromium Total ICAP/MS	1.4	100	95.3	ug/L	94	(70-130)		
MSD_201408190709	Chromium Total ICAP/MS	6	100	98.2	ug/L	92	(70-130)	20	1.5
MSD2_201408190794	Chromium Total ICAP/MS	1.4	100	92.6	ug/L	91	(70-130)	20	2.9
LCS1	Cobalt dissolved ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	99.0	ug/L	99	(85-115)	20	2.3
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201408190709	Cobalt dissolved ICAP/MS	ND	100	90.2	ug/L	90	(70-130)		
MSD_201408190709	Cobalt dissolved ICAP/MS	ND	100	89.0	ug/L	89	(70-130)	20	1.3
LCS1	Cobalt Total ICAP/MS		100	96.8	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.0	ug/L	99	(85-115)	20	2.3
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201408190709	Cobalt Total ICAP/MS	ND	100	90.2	ug/L	90	(70-130)		
MS2_201408190794	Cobalt Total ICAP/MS	ND	100	88.6	ug/L	88	(70-130)		
MSD_201408190709	Cobalt Total ICAP/MS	ND	100	89.0	ug/L	89	(70-130)	20	1.3
MSD2_201408190794	Cobalt Total ICAP/MS	ND	100	86.8	ug/L	86	(70-130)	20	2.0
LCS1	Copper dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201408190709	Copper dissolved ICAP/MS	6.4	100	97.4	ug/L	91	(70-130)		
MSD_201408190709	Copper dissolved ICAP/MS	6.4	100	95.0	ug/L	89	(70-130)	20	2.5
LCS1	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201408190709	Copper Total ICAP/MS	6.4	100	97.4	ug/L	91	(70-130)		
MS2_201408190794	Copper Total ICAP/MS	ND	100	86.4	ug/L	86	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201408190709	Copper Total ICAP/MS	6.4	100	95.0	ug/L	89	(70-130)	20	2.5
MSD2_201408190794	Copper Total ICAP/MS	ND	100	84.6	ug/L	85	(70-130)	20	2.1
LCS1	Lead dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	20.6	ug/L	103	(85-115)	20	2.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.521	ug/L	104	(50-150)		
MS_201408190709	Lead dissolved ICAP/MS	ND	20	18.6	ug/L	92	(70-130)		
MSD_201408190709	Lead dissolved ICAP/MS	ND	20	18.2	ug/L	90	(70-130)	20	2.2
LCS1	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	2.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.521	ug/L	104	(50-150)		
MS_201408190709	Lead Total ICAP/MS	ND	20	18.6	ug/L	92	(70-130)		
MS2_201408190794	Lead Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MSD_201408190709	Lead Total ICAP/MS	ND	20	18.2	ug/L	90	(70-130)	20	2.2
MSD2_201408190794	Lead Total ICAP/MS	ND	20	17.8	ug/L	89	(70-130)	20	2.2
LCS1	Molybdenum dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	108	ug/L	108	(85-115)	20	1.9
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201408190709	Molybdenum dissolved ICAP/MS	4.7	100	105	ug/L	101	(70-130)		
MSD_201408190709	Molybdenum dissolved ICAP/MS	4.7	100	104	ug/L	99	(70-130)	20	0.96
LCS1	Molybdenum Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	108	ug/L	108	(85-115)	20	1.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201408190709	Molybdenum Total ICAP/MS	4.7	100	105	ug/L	101	(70-130)		
MS2_201408190794	Molybdenum Total ICAP/MS	3.1	100	105	ug/L	102	(70-130)		
MSD_201408190709	Molybdenum Total ICAP/MS	4.7	100	104	ug/L	99	(70-130)	20	0.96
MSD2_201408190794	Molybdenum Total ICAP/MS	3.1	100	103	ug/L	100	(70-130)	20	1.9
LCS1	Nickel dissolved ICAP/MS		50	50.1	ug/L	100	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	51.4	ug/L	103	(85-115)	20	2.6
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	5.19	ug/L	104	(50-150)		
MS_201408190709	Nickel dissolved ICAP/MS	ND	50	47.2	ug/L	90	(70-130)		
MSD_201408190709	Nickel dissolved ICAP/MS	ND	50	46.9	ug/L	89	(70-130)	20	0.64
LCS1	Nickel Total ICAP/MS		50	50.1	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.4	ug/L	103	(85-115)	20	2.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.19	ug/L	104	(50-150)		
MS_201408190709	Nickel Total ICAP/MS	ND	50	47.2	ug/L	90	(70-130)		
MS2_201408190794	Nickel Total ICAP/MS	ND	50	48.5	ug/L	89	(70-130)		
MSD_201408190709	Nickel Total ICAP/MS	ND	50	46.9	ug/L	89	(70-130)	20	0.64
MSD2_201408190794	Nickel Total ICAP/MS	ND	50	47.6	ug/L	87	(70-130)	20	1.9
LCS1	Selenium dissolved ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.3	ug/L	107	(85-115)	20	4.8
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.33	ug/L	107	(50-150)		
MS_201408190709	Selenium dissolved ICAP/MS	ND	20	26.1	ug/L	125	(70-130)		
MSD_201408190709	Selenium dissolved ICAP/MS	ND	20	25.8	ug/L	124	(70-130)	20	1.2
LCS1	Selenium Total ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.3	ug/L	107	(85-115)	20	4.8
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.33	ug/L	107	(50-150)		
MS_201408190709	Selenium Total ICAP/MS	ND	20	26.1	ug/L	125	(70-130)		
MS2_201408190794	Selenium Total ICAP/MS	22	20	44.9	ug/L	114	(70-130)		
MSD_201408190709	Selenium Total ICAP/MS	ND	20	25.8	ug/L	124	(70-130)	20	1.2
MSD2_201408190794	Selenium Total ICAP/MS	22	20	44.0	ug/L	110	(70-130)	20	2.0
LCS1	Thallium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.1	ug/L	101	(85-115)	20	3.5
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201408190709	Thallium dissolved ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MSD_201408190709	Thallium dissolved ICAP/MS	ND	20	17.8	ug/L	89	(70-130)	20	2.2
LCS1	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)	20	3.5
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201408190709	Thallium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MS2_201408190794	Thallium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MSD_201408190709	Thallium Total ICAP/MS	ND	20	17.8	ug/L	89	(70-130)	20	2.2
MSD2_201408190794	Thallium Total ICAP/MS	ND	20	17.5	ug/L	88	(70-130)	20	3.9
LCS1	Vanadium Dissolved ICAP/MS		100	98.5	ug/L	99	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	99.0	ug/L	99	(85-115)	20	0.51
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	2.94	ug/L	98	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201408190709	Vanadium Dissolved ICAP/MS	5.9	100	107	ug/L	101	(70-130)		
MSD_201408190709	Vanadium Dissolved ICAP/MS	5.9	100	107	ug/L	101	(70-130)	20	0.0
LCS1	Vanadium Total ICAP/MS		100	98.5	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.0	ug/L	99	(85-115)	20	0.51
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.94	ug/L	98	(50-150)		
MS_201408190709	Vanadium Total ICAP/MS	5.9	100	107	ug/L	101	(70-130)		
MS2_201408190794	Vanadium Total ICAP/MS	3.1	100	104	ug/L	101	(70-130)		
MSD_201408190709	Vanadium Total ICAP/MS	5.9	100	107	ug/L	101	(70-130)	20	0.0
MSD2_201408190794	Vanadium Total ICAP/MS	3.1	100	102	ug/L	99	(70-130)	20	1.9
LCS1	Zinc dissolved ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	2.3
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	22.0	ug/L	110	(50-150)		
MS_201408190709	Zinc dissolved ICAP/MS	ND	100	102	ug/L	100	(70-130)		
MSD_201408190709	Zinc dissolved ICAP/MS	ND	100	101	ug/L	99	(70-130)	20	0.99
LCS1	Zinc Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.3
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	22.0	ug/L	110	(50-150)		
MS_201408190709	Zinc Total ICAP/MS	ND	100	102	ug/L	100	(70-130)		
MS2_201408190794	Zinc Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)		
MSD_201408190709	Zinc Total ICAP/MS	ND	100	101	ug/L	99	(70-130)	20	0.99
MSD2_201408190794	Zinc Total ICAP/MS	ND	100	92.8	ug/L	92	(70-130)	20	4.2

QC Ref# 788145 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 08/22/2014

LCS1	Kjeldahl Nitrogen		4.0	4.28	mg/L	107	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.08	mg/L	102	(90-110)	20	4.8
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.262	mg/L	131	(50-150)		
MS_201408180316	Kjeldahl Nitrogen	ND	4.0	4.31	mg/L	107	(90-110)		
MS_201408120822	Kjeldahl Nitrogen	1.7	4.0	5.40	mg/L	92	(90-110)		
MSD_201408180316	Kjeldahl Nitrogen	ND	4.0	4.11	mg/L	102	(90-110)	10	4.8
MSD_201408120822	Kjeldahl Nitrogen	1.7	4.0	5.50	mg/L	94	(90-110)	10	1.8

QC Ref# 788153 - PH (H3=past HT not compliant) by SM4500-HB

Analysis Date: 08/21/2014

DUP_201408180118	PH (H3=past HT not compliant)	7.7		7.77	Units		(0-20)	20	0.65
DUP_201408220364	PH (H3=past HT not compliant)	9.5		9.58	Units		(0-20)	20	0.63
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	PH (H3=past HT not compliant)		6.0	5.99	Units	100	(98-102)	20	0.17
QC Ref# 788171 - Specific Conductance by SM2510B					Analysis Date: 08/21/2014				
DUP1_201408220364	Specific Conductance	51		52.2	umho/cm		(0-20)		
DUP2_201408220365	Specific Conductance	1400		1360	umho/cm		(0-20)	20	0.17
LCS1	Specific Conductance		1000	1010	umho/cm	101	(95-105)		
LCS2	Specific Conductance		1000	1020	umho/cm	102	(95-105)	20	0.99
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.50	umho/cm	92	(50-150)		
QC Ref# 788199 - ICP Metals by EPA 200.7					Analysis Date: 08/22/2014				
LCS1	Calcium Total ICAP		50	50.4	mg/L	101	(85-115)		
LCS2	Calcium Total ICAP		50	48.5	mg/L	97	(85-115)	20	3.8
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.13	mg/L	113	(50-150)		
MS_201408190274	Calcium Total ICAP	11	50	62.2	mg/L	102	(70-130)		
MS2_201408190280	Calcium Total ICAP	64	50	116	mg/L	103	(70-130)		
MSD_201408190274	Calcium Total ICAP	11	50	60.6	mg/L	99	(70-130)	20	2.6
MSD2_201408190280	Calcium Total ICAP	64	50	111	mg/L	93	(70-130)	20	4.4
LCS1	Magnesium Total ICAP		20	20.8	mg/L	104	(85-115)		
LCS2	Magnesium Total ICAP		20	19.8	mg/L	99	(85-115)	20	4.9
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.0994	mg/L	99	(50-150)		
MS_201408190274	Magnesium Total ICAP	3.2	20	23.8	mg/L	103	(70-130)		
MS2_201408190280	Magnesium Total ICAP	53	20	73.8	mg/L	105	(70-130)		
MSD_201408190274	Magnesium Total ICAP	3.2	20	23.2	mg/L	100	(70-130)	20	2.1
MSD2_201408190280	Magnesium Total ICAP	53	20	70.3	mg/L	87	(70-130)	20	4.9
LCS1	Sodium Total ICAP		50	50.7	mg/L	101	(85-115)		
LCS2	Sodium Total ICAP		50	48.3	mg/L	97	(85-115)	20	4.8
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.05	mg/L	105	(50-150)		
MS_201408190274	Sodium Total ICAP	4.4	50	54.1	mg/L	99	(70-130)		
MS2_201408190280	Sodium Total ICAP	470	50	532	mg/L	117	(70-130)		
MSD_201408190274	Sodium Total ICAP	4.4	50	53.3	mg/L	98	(70-130)	20	1.5
MSD2_201408190280	Sodium Total ICAP	470	50	506	mg/L	<u>64</u>	(70-130)	20	5.0
QC Ref# 788279 - Haloacetic Acids by SM 6251B					Analysis Date: 08/26/2014				
CCCH	1,2,3-Trichloropropane (I)			96.9	%	97	(80-120)		
CCCL	1,2,3-Trichloropropane (I)			97.6	%	98	(80-120)		
DUP1_201408200500	1,2,3-Trichloropropane (I)			95.2	%	95	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP2_201408200481	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			103	%	103	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS1_201408200499	1,2,3-Trichloropropane (I)			95.8	%	96	(80-120)		
MS2_201408200480	1,2,3-Trichloropropane (I)			94.9	%	95	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			101	%	101	(70-130)		
CCCL	2,3-Dibromopropionic acid (S)			98.6	%	99	(70-130)		
DUP1_201408200500	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP2_201408200481	2,3-Dibromopropionic acid (S)			108	%	108	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			91.8	%	92	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			96.2	%	96	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			97.7	%	98	(70-130)		
MS1_201408200499	2,3-Dibromopropionic acid (S)			96.8	%	97	(70-130)		
MS2_201408200480	2,3-Dibromopropionic acid (S)			109	%	109	(70-130)		
CCCH	Bromochloroacetic acid		32	32.7	ug/L	102	(85-115)		
CCCL	Bromochloroacetic acid		1.0	0.796	ug/L	80	(50-150)		
DUP1_201408200500	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408200481	Bromochloroacetic acid	2.3		2.25	ug/L		(0-20)		
LCS3	Bromochloroacetic acid		8.0	8.38	ug/L	105	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	0.841	ug/L	84	(50-150)		
MS1_201408200499	Bromochloroacetic acid	ND	20	16.2	ug/L	<u>79</u>	(84-123)		
MS2_201408200480	Bromochloroacetic acid	2.7	32	35.9	ug/L	104	(84-123)		
CCCH	Dibromoacetic acid		32	34.0	ug/L	106	(85-115)		
CCCL	Dibromoacetic acid		1.0	0.844	ug/L	84	(50-150)		
DUP1_201408200500	Dibromoacetic acid	1.5		1.59	ug/L		(0-20)		
DUP2_201408200481	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Dibromoacetic acid		8.0	8.67	ug/L	108	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.875	ug/L	88	(50-150)		
MS1_201408200499	Dibromoacetic acid	ND	20	17.9	ug/L	88	(84-122)		
MS2_201408200480	Dibromoacetic acid	ND	32	35.4	ug/L	109	(84-122)		
CCCH	Dichloroacetic acid		32	32.3	ug/L	101	(85-115)		
CCCL	Dichloroacetic acid		1.0	1.03	ug/L	103	(50-150)		
DUP1_201408200500	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408200481	Dichloroacetic acid	9.4		10.4	ug/L		(0-20)	20	9.8
LCS3	Dichloroacetic acid		8.0	7.74	ug/L	97	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	0.674	ug/L	67	(50-150)		
MS1_201408200499	Dichloroacetic acid	ND	20	18.3	ug/L	92	(79-123)		
MS2_201408200480	Dichloroacetic acid	11	32	41.5	ug/L	96	(79-123)		
CCCH	Monobromoacetic acid		32	31.3	ug/L	98	(85-115)		
CCCL	Monobromoacetic acid		1.0	1.19	ug/L	119	(50-150)		
DUP1_201408200500	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408200481	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	8.02	ug/L	100	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	1.14	ug/L	114	(50-150)		
MS1_201408200499	Monobromoacetic acid	ND	20	19.7	ug/L	94	(81-122)		
MS2_201408200480	Monobromoacetic acid	ND	32	27.5	ug/L	86	(81-122)		
CCCH	Monochloroacetic acid		32	33.0	ug/L	103	(85-115)		
CCCL	Monochloroacetic acid		2.0	1.83	ug/L	91	(50-150)		
DUP1_201408200500	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408200481	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	9.36	ug/L	117	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.70	ug/L	85	(50-150)		
MS1_201408200499	Monochloroacetic acid	ND	20	14.5	ug/L	72	(72-126)		
MS2_201408200480	Monochloroacetic acid	ND	32	32.6	ug/L	96	(72-126)		
CCCH	Trichloroacetic acid		32	34.4	ug/L	108	(85-115)		
CCCL	Trichloroacetic acid		1.0	1.28	ug/L	128	(50-150)		
DUP1_201408200500	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408200481	Trichloroacetic acid	9.8		10.4	ug/L		(0-20)	20	6.6
LCS3	Trichloroacetic acid		8.0	8.78	ug/L	110	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	1.26	ug/L	126	(50-150)		
MS1_201408200499	Trichloroacetic acid	ND	20	13.8	ug/L	<u>69</u>	(82-124)		
MS2_201408200480	Trichloroacetic acid	10	32	44.0	ug/L	105	(82-124)		

QC Ref# 788609 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 08/22/2014

LCS1	Total phosphorus as P		0.4	0.393	mg/L	98	(90-110)		
LCS2	Total phosphorus as P		0.4	0.418	mg/L	105	(90-110)	20	6.2
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0248	mg/L	124	(50-150)		
MS_201408140514	Total phosphorus as P	0.16	0.4	0.547	mg/L	98	(90-110)		
MS_201408180118	Total phosphorus as P	0.024	0.4	0.401	mg/L	94	(90-110)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201408180118	Total phosphorus as P	0.024	0.4	0.422	mg/L	100	(90-110)	20	5.1
MSD_201408140514	Total phosphorus as P	0.16	0.4	0.563	mg/L	101	(90-110)	20	2.9
QC Ref# 788627 - ICPMS Metals by EPA 200.8						Analysis Date: 08/25/2014			
LCS1	Antimony Total ICAP/MS		50	52.4	ug/L	105	(85-115)		
LCS2	Antimony Total ICAP/MS		50	51.7	ug/L	103	(85-115)	20	1.3
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201408180332	Antimony Total ICAP/MS	ND	50	50.7	ug/L	101	(70-130)		
MS2_201408250352	Antimony Total ICAP/MS	ND	50	51.6	ug/L	103	(70-130)		
MSD_201408180332	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)	20	2.7
MSD2_201408250352	Antimony Total ICAP/MS	ND	50	52.8	ug/L	105	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.48
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.25	ug/L	125	(50-150)		
MS_201408180332	Arsenic Total ICAP/MS	4.4	20	23.2	ug/L	94	(70-130)		
MS2_201408250352	Arsenic Total ICAP/MS	1.4	20	21.8	ug/L	102	(70-130)		
MSD_201408180332	Arsenic Total ICAP/MS	4.4	20	23.5	ug/L	96	(70-130)	20	1.3
MSD2_201408250352	Arsenic Total ICAP/MS	1.4	20	22.0	ug/L	103	(70-130)	20	0.91
LCS1	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Barium Total ICAP/MS		100	99.4	ug/L	99	(85-115)	20	2.6
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.10	ug/L	105	(50-150)		
MS_201408180332	Barium Total ICAP/MS	32	100	128	ug/L	95	(70-130)		
MS2_201408250352	Barium Total ICAP/MS	30	100	134	ug/L	104	(70-130)		
MSD_201408180332	Barium Total ICAP/MS	32	100	130	ug/L	98	(70-130)	20	1.6
MSD2_201408250352	Barium Total ICAP/MS	30	100	138	ug/L	108	(70-130)	20	2.9
LCS1	Beryllium Total ICAP/MS		5.0	4.96	ug/L	99	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.11	ug/L	102	(85-115)	20	3.0
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201408180332	Beryllium Total ICAP/MS	ND	5.0	4.93	ug/L	99	(70-130)		
MS2_201408250352	Beryllium Total ICAP/MS	ND	5.0	5.25	ug/L	104	(70-130)		
MSD_201408180332	Beryllium Total ICAP/MS	ND	5.0	4.82	ug/L	97	(70-130)	20	2.3
MSD2_201408250352	Beryllium Total ICAP/MS	ND	5.0	5.08	ug/L	101	(70-130)	20	3.3
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.98

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.541	ug/L	108	(50-150)		
MS_201408180332	Cadmium Total ICAP/MS	ND	20	18.7	ug/L	94	(70-130)		
MS2_201408250352	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_201408180332	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	95	(70-130)	20	1.1
MSD2_201408250352	Cadmium Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)	20	3.9
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	101	(85-115)	20	2.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201408180332	Chromium Total ICAP/MS	ND	100	101	ug/L	100	(70-130)		
MS2_201408250352	Chromium Total ICAP/MS	ND	100	97.1	ug/L	97	(70-130)		
MSD_201408180332	Chromium Total ICAP/MS	ND	100	103	ug/L	102	(70-130)	20	2.0
MSD2_201408250352	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.9
LCS1	Cobalt Total ICAP/MS		100	98.0	ug/L	98	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	96.3	ug/L	96	(85-115)	20	1.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.05	ug/L	103	(50-150)		
MS_201408180332	Cobalt Total ICAP/MS	ND	100	93.7	ug/L	93	(70-130)		
MS2_201408250352	Cobalt Total ICAP/MS	ND	100	95.5	ug/L	95	(70-130)		
MSD_201408180332	Cobalt Total ICAP/MS	ND	100	95.4	ug/L	95	(70-130)	20	1.8
MSD2_201408250352	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)	20	1.4
LCS1	Copper Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.99
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201408180332	Copper Total ICAP/MS	ND	100	90.5	ug/L	90	(70-130)		
MS2_201408250352	Copper Total ICAP/MS	15	100	114	ug/L	99	(70-130)		
MSD_201408180332	Copper Total ICAP/MS	ND	100	93.1	ug/L	93	(70-130)	20	2.8
MSD2_201408250352	Copper Total ICAP/MS	15	100	116	ug/L	101	(70-130)	20	1.7
LCS1	Lead Total ICAP/MS		20	20.9	ug/L	105	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.9	ug/L	104	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.564	ug/L	113	(50-150)		
MS_201408180332	Lead Total ICAP/MS	ND	20	20.7	ug/L	103	(70-130)		
MS2_201408250352	Lead Total ICAP/MS	0.59	20	21.2	ug/L	103	(70-130)		
MSD_201408180332	Lead Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)	20	2.9
MSD2_201408250352	Lead Total ICAP/MS	0.59	20	21.8	ug/L	106	(70-130)	20	2.8

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Molybdenum Total ICAP/MS		100	99.9	ug/L	100	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	98.4	ug/L	98	(85-115)	20	1.5
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	104	(50-150)		
MS_201408180332	Molybdenum Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MS2_201408250352	Molybdenum Total ICAP/MS	2.3	100	101	ug/L	99	(70-130)		
MSD_201408180332	Molybdenum Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	1.9
MSD2_201408250352	Molybdenum Total ICAP/MS	2.3	100	103	ug/L	101	(70-130)	20	2.0
LCS1	Nickel Total ICAP/MS		50	50.5	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1.4
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.13	ug/L	103	(50-150)		
MS_201408180332	Nickel Total ICAP/MS	ND	50	49.0	ug/L	93	(70-130)		
MS2_201408250352	Nickel Total ICAP/MS	ND	50	49.9	ug/L	98	(70-130)		
MSD_201408180332	Nickel Total ICAP/MS	ND	50	50.4	ug/L	95	(70-130)	20	2.6
MSD2_201408250352	Nickel Total ICAP/MS	ND	50	50.8	ug/L	100	(70-130)	20	1.8
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.1	ug/L	96	(85-115)	20	4.1
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201408180332	Selenium Total ICAP/MS	6.4	20	10.2	ug/L	<u>19</u>	(70-130)		
MS2_201408250352	Selenium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MSD_201408180332	Selenium Total ICAP/MS	6.4	20	10.4	ug/L	<u>20</u>	(70-130)	20	1.9
MSD2_201408250352	Selenium Total ICAP/MS	ND	20	19.4	ug/L	96	(70-130)	20	3.1
LCS1	Silver Total ICAP/MS		50	52.6	ug/L	105	(85-115)		
LCS2	Silver Total ICAP/MS		50	51.6	ug/L	103	(85-115)	20	1.9
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.540	ug/L	108	(50-150)		
MS_201408180332	Silver Total ICAP/MS	ND	50	45.6	ug/L	91	(70-130)		
MS2_201408250352	Silver Total ICAP/MS	ND	50	50.8	ug/L	102	(70-130)		
MSD_201408180332	Silver Total ICAP/MS	ND	50	46.1	ug/L	92	(70-130)	20	1.1
MSD2_201408250352	Silver Total ICAP/MS	ND	50	52.5	ug/L	105	(70-130)	20	3.3
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	1.5
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201408180332	Thallium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MS2_201408250352	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201408180332	Thallium Total ICAP/MS	ND	20	21.8	ug/L	109	(70-130)	20	7.1
MSD2_201408250352	Thallium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	1.9
LCS1	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.5	ug/L	100	(85-115)	20	1.5
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.11	ug/L	104	(50-150)		
MS_201408180332	Vanadium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201408250352	Vanadium Total ICAP/MS	ND	100	97.2	ug/L	96	(70-130)		
MSD_201408180332	Vanadium Total ICAP/MS	ND	100	106	ug/L	107	(70-130)	20	1.9
MSD2_201408250352	Vanadium Total ICAP/MS	ND	100	99.9	ug/L	99	(70-130)	20	2.7
LCS1	Zinc Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)	20	2.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.9	ug/L	109	(50-150)		
MS_201408180332	Zinc Total ICAP/MS	ND	100	90.3	ug/L	88	(70-130)		
MS2_201408250352	Zinc Total ICAP/MS	ND	100	104	ug/L	99	(70-130)		
MSD_201408180332	Zinc Total ICAP/MS	ND	100	92.5	ug/L	90	(70-130)	20	2.4
MSD2_201408250352	Zinc Total ICAP/MS	ND	100	110	ug/L	106	(70-130)	20	5.6

QC Ref# 788751 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 08/28/2014

LCS1	Ammonia Nitrogen		0.5	0.527	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.529	mg/L	106	(90-110)	20	0.38
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0488	mg/L	98	(53-118)		
MS_201408140157	Ammonia Nitrogen	ND	0.5	0.537	mg/L	107	(90-110)		
MS_201408200671	Ammonia Nitrogen	ND	0.5	0.445	mg/L	86	(90-110)		
MSD_201408140157	Ammonia Nitrogen	ND	0.5	0.543	mg/L	109	(90-110)	20	1.1
MSD_201408200671	Ammonia Nitrogen	ND	0.5	0.443	mg/L	85	(90-110)	20	0.45

QC Ref# 788821 - ICPMS Metals by EPA 200.8

Analysis Date: 08/27/2014

LCS1	Silver dissolved ICAP/MS		50	51.8	ug/L	104	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	51.3	ug/L	103	(85-115)	20	0.97
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.513	ug/L	103	(50-150)		
MS_201408180118	Silver dissolved ICAP/MS	ND	50	48.0	ug/L	96	(70-130)		
MS2_201408200575	Silver dissolved ICAP/MS	ND	50	44.8	ug/L	90	(70-130)		
MSD_201408180118	Silver dissolved ICAP/MS	ND	50	48.2	ug/L	96	(70-130)	20	0.42
MSD2_201408200575	Silver dissolved ICAP/MS	ND	50	45.8	ug/L	92	(70-130)	20	2.2
LCS1	Silver Total ICAP/MS		50	51.8	ug/L	104	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Silver Total ICAP/MS		50	51.3	ug/L	103	(85-115)	20	0.97
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.513	ug/L	103	(50-150)		
MS_201408180118	Silver Total ICAP/MS	ND	50	48.0	ug/L	96	(70-130)		
MS2_201408200575	Silver Total ICAP/MS	ND	50	44.8	ug/L	90	(70-130)		
MSD_201408180118	Silver Total ICAP/MS	ND	50	48.2	ug/L	96	(70-130)	20	0.42
MSD2_201408200575	Silver Total ICAP/MS	ND	50	45.8	ug/L	92	(70-130)	20	2.2

QC Ref# 791354 - Total Organic Halides by SW9020/SM5320

Analysis Date: 09/08/2014

LCS1	Total Organic Halides Rep 1		50	46.2	ug/L	92	(85-115)		
LCS2	Total Organic Halides Rep 1		200	191	ug/L	96	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	4.96	ug/L	99	(50-150)		
MS_201408290767	Total Organic Halides Rep 1	ND	50	53.6	ug/L	100	(90-110)		
MSD_201408290767	Total Organic Halides Rep 1	ND	50	61.5	ug/L	116	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.00	ug/L	100	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.4	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 2		200	198	ug/L	99	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	5.31	ug/L	106	(50-150)		
MS_201408290767	Total Organic Halides Rep 2	ND	50	53.6	ug/L	107	(90-110)		
MSD_201408290767	Total Organic Halides Rep 2	ND	50	61.5	ug/L	123	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.00	ug/L	100	(97-103)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

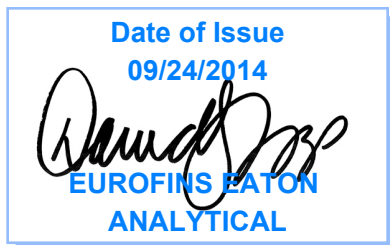
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Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 496507
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ²⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancho, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 496507
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **August 28, 2014 at 1118**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date																											
201408280832	PP INLET	08/27/2014 1100																											
	<table border="1"> <tr> <td>@ICPMS</td> <td>@ICPMS</td> <td>@HAA6</td> </tr> <tr> <td>@THM524</td> <td>Alkalinity in CaCO3 units</td> <td>Ammonia Nitrogen</td> </tr> <tr> <td>Bicarb.Alkalinity as HCO3,calc</td> <td>Biochemical Oxygen Demand,Totl</td> <td>Calcium Total ICAP</td> </tr> <tr> <td>Chemical Oxygen Demand (COD)</td> <td>Chloride</td> <td>Free Chlorine Residual</td> </tr> <tr> <td>Magnesium Total ICAP</td> <td>Nitrate as Nitrogen by IC</td> <td>Nitrite Nitrogen by IC</td> </tr> <tr> <td>Orthophosphate as P (OPO4)</td> <td>PH (H3=past HT not compliant)</td> <td>Sodium Total ICAP</td> </tr> <tr> <td>Specific Conductance</td> <td>Sulfate</td> <td>Total Chlorine Residual</td> </tr> <tr> <td>Total Kjeldahl Nitrogen</td> <td>Total Organic Halogen</td> <td>Total phosphorus as P</td> </tr> <tr> <td>Total Suspended Solids (TSS)</td> <td></td> <td></td> </tr> </table>	@ICPMS	@ICPMS	@HAA6	@THM524	Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)	Chloride	Free Chlorine Residual	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP	Specific Conductance	Sulfate	Total Chlorine Residual	Total Kjeldahl Nitrogen	Total Organic Halogen	Total phosphorus as P	Total Suspended Solids (TSS)			
@ICPMS	@ICPMS	@HAA6																											
@THM524	Alkalinity in CaCO3 units	Ammonia Nitrogen																											
Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP																											
Chemical Oxygen Demand (COD)	Chloride	Free Chlorine Residual																											
Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC																											
Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP																											
Specific Conductance	Sulfate	Total Chlorine Residual																											
Total Kjeldahl Nitrogen	Total Organic Halogen	Total phosphorus as P																											
Total Suspended Solids (TSS)																													

Test Description

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

@HAA6 -- Haloacetic Acids

@THM524 -- Volatile Organics by GCMS

496507

CHAIN OF CUSTODY RECORD



Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: FE

SAMPLES LOGGED IN BY: W

SAMPLE TEMP RECEIVED AT: _____ °C (Compliance: 4 ± 2 °C)

Colton / No. California / Arizona

Monrovia 3.3-0.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Wet Ice X No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Crystal Geyser Roxane

PROJECT CODE: CGR-0lancho

COMPLIANCE SAMPLES: **NON-COMPLIANCE SAMPLES:**
 - Requires state forms _____ REGULATION INVOLVED: _____

EEA CLIENT CODE: _____ **COC ID:** _____

SAMPLE GROUP: wastewater

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), **OR**
list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
					1	2	
8/22	1100	PP Inlet					

* **MATRIX TYPES:** RSW = Raw Surface Water **CFW** = Chlor(am)inated Finished Water **SO** = Soil **O** = Other - Please Identify
 RGW = Raw Ground Water **FW** = Other Finished Water **WW** = Waste Water **BW** = Bottled Water **SW** = Storm Water **SL** = Sludge

SIGNED BY: Manuel J **PRINT NAME:** Manuel J **DATE:** 8/27/14 **TIME:** 1100

RELINQUISHED BY: _____ **COMPANY/TITLE:** CG Roxane LLC

RECEIVED BY: Ray Ederson **DATE:** 8/28/14 **TIME:** 1115

RELINQUISHED BY: _____

RECEIVED BY: _____

Note: Sampler Please return this paper with your samples

Kit #: 95155
Created By: DST
Deliver By: 08/08/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: Wastewater
PO#/JOB#:

Ship Sample Kits to
Crystal Geyser Roxane
1210 South Highway 395
Olancha, CA 93549

Attn: Manuel Luna - Shipping
Phone: 760-764-1822
Fax: 760-764-2861

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
6	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
6	@ICPMS	1 500ml poly no preservative	
6	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
6	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
6	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
6	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
6	Biochemical Oxygen Demand Tot	1 1L poly no preservative	
6	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
6	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
6	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
6	Orthophosphate as P	1 125ml poly OPO4_no preservative	
6	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830
6	Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	

Comments

SHIPPING: Please deliver by Friday 08/08/14 - 6 separate kits.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395

Origin ID: IYKA



Olanca, CA 93549

Ship Date: 27AUG14
ActWgt: 25.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158

BILL SENDER

David
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

Ref #
Invoice #
PO #
Dept #

2 of 2

THU - 28 AUG AA
STANDARD OVERNIGHT

MPS# 7709 6795 2826

0263

Mstr# 7709 6795 2550

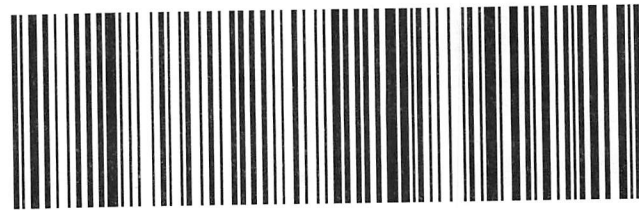
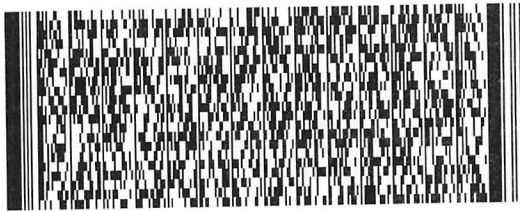
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CA-US

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92 WHPA



522G1/ECF2/8A09

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 496507

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/28/2014 1118

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201408280832	<u>PP INLET</u>				
09/05/2014 19:53	Alkalinity in CaCO3 units		98		mg/L	2
09/18/2014 20:18	Antimony dissolved ICAP/MS		1.0		ug/L	1
09/07/2014 20:41	Antimony Total ICAP/MS		1.1	6	ug/L	1
09/18/2014 20:18	Arsenic dissolved ICAP/MS		18		ug/L	1
09/07/2014 20:41	Arsenic Total ICAP/MS		17	10	ug/L	1
09/18/2014 20:18	Barium dissolved ICAP/MS		7.4		ug/L	2
09/07/2014 20:41	Barium Total ICAP/MS		7.3	2000	ug/L	2
09/08/2014 11:15	Bicarb. Alkalinity as HCO3calc		120		mg/L	2
08/29/2014 11:14	Biochemical Oxygen Demand, Totl		5.0		mg/L	3
09/03/2014 17:22	Calcium Total ICAP		19		mg/L	1
09/12/2014 10:42	Chemical Oxygen Demand (COD)		15		mg/L	5
08/28/2014 20:21	Chloride		13	250	mg/L	1
09/18/2014 20:18	Copper dissolved ICAP/MS		16		ug/L	2
09/07/2014 20:41	Copper Total ICAP/MS		20	1300	ug/L	2
09/10/2014 12:51	Kjeldahl Nitrogen		0.26		mg/L	0.2
09/03/2014 17:22	Magnesium Total ICAP		1.7		mg/L	0.1
09/18/2014 20:18	Molybdenum dissolved ICAP/MS		6.3		ug/L	2
09/07/2014 20:41	Molybdenum Total ICAP/MS		7.5		ug/L	2
08/28/2014 14:55	Orthophosphate as P		0.15		mg/L	0.01
09/05/2014 19:53	PH (H3=past HT not compliant)		7.6		Units	0.1
09/03/2014 17:22	Sodium Total ICAP		45		mg/L	1
09/05/2014 19:53	Specific Conductance, 25 C		330		umho/cm	2
08/28/2014 20:21	Sulfate		36	250	mg/L	0.5
09/12/2014 17:11	Total phosphorus as P		0.34		mg/L	0.02
09/18/2014 20:18	Vanadium Dissolved ICAP/MS		3.0		ug/L	3
09/09/2014 22:15	Zinc Total ICAP/MS		22	5000	ug/L	20

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 496507

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 08/28/2014 1118

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
PP INLET (201408280832)						Sampled on 08/27/2014 1100		
EPA 200.8 - ICPMS Metals								
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Antimony dissolved ICAP/MS	1.0	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Antimony Total ICAP/MS	1.1	ug/L	1	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Arsenic dissolved ICAP/MS	18	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Arsenic Total ICAP/MS	17	ug/L	1	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Barium dissolved ICAP/MS	7.4	ug/L	2	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Barium Total ICAP/MS	7.3	ug/L	2	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Copper dissolved ICAP/MS	16	ug/L	2	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Copper Total ICAP/MS	20	ug/L	2	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Molybdenum dissolved ICAP/MS	6.3	ug/L	2	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Molybdenum Total ICAP/MS	7.5	ug/L	2	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
8/31/2014	09/21/2014	20:03 793793	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Vanadium Dissolved ICAP/MS	3.0	ug/L	3	1
8/31/2014	09/07/2014	20:41 790939	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
8/31/2014	09/18/2014	20:18 793433	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
8/31/2014	09/09/2014	22:15 791606	(EPA 200.8)	Zinc Total ICAP/MS	22	ug/L	20	1
EPA 200.7 - ICP Metals								
8/31/2014	09/03/2014	17:22 789984	(EPA 200.7)	Calcium Total ICAP	19	mg/L	1	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
08/28/2014 1118

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/31/2014	09/03/2014	17:22 789984	(EPA 200.7)	Magnesium Total ICAP	1.7	mg/L	0.1	1
8/31/2014	09/03/2014	17:22 789984	(EPA 200.7)	Sodium Total ICAP	45	mg/L	1	1
SW9020/SM5320 - Total Organic Halides								
9/8/2014	09/08/2014	15:24 791354	(SW9020/SM5320)	Total Organic Halides Average	ND (B4)	ug/L	10	1
9/8/2014	09/08/2014	15:24 791354	(SW9020/SM5320)	Total Organic Halides Rep 1	ND (B4)	ug/L	10	1
9/8/2014	09/08/2014	15:24 791354	(SW9020/SM5320)	Total Organic Halides Rep 2	ND (B4)	ug/L	10	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	09/08/2014	11:15	(SM2330B)	Bicarb.Alkalinity as HCO3calc	120	mg/L	2	1
SM 6251B - Haloacetic Acids								
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	1,2,3-Trichloropropane	107	%		1
9/3/2014	09/04/2014	00:12 789900	(SM 6251B)	2,3-Dibromopropionic acid	102	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	08/28/2014	20:21 789539	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	08/28/2014	20:21 789539	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	08/28/2014	20:21 789541	(EPA 300.0)	Chloride	13	mg/L	1	1
	08/28/2014	20:21 789541	(EPA 300.0)	Sulfate	36	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	09/12/2014	17:11 791883	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.34	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	09/10/2014	12:51 791971	(EPA 351.2)	Kjeldahl Nitrogen	0.26	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	09/02/2014	15:23 789944	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	1,2-Dichloroethane-d4	118	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
08/28/2014 1118

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	4-Bromofluorobenzene	92	%		1
9/2/2014	09/03/2014	12:56 790035	(EPA 524.2)	Toluene-d8	93	%		1
SM 2320B - Alkalinity in CaCO3 units								
	09/05/2014	19:53 790990	(SM 2320B)	Alkalinity in CaCO3 units	98	mg/L	2	1
SM4500-HB - PH (H3=past HT not compliant)								
	09/05/2014	19:53 790995	(SM4500-HB)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	09/03/2014	19:34 790093	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	09/12/2014	10:42 792073	(EPA 410.4)	Chemical Oxygen Demand (COD)	15	mg/L	5	1
SM2510B - Specific Conductance								
	09/05/2014	19:53 790999	(SM2510B)	Specific Conductance, 25 C	330	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	08/29/2014	11:14 789709	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	5.0	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	08/28/2014	14:55 789376	(4500P-E/365.1)	Orthophosphate as P	0.15	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	08/28/2014	16:00 789623	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	08/28/2014	16:00 789621	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

Rounding on totals after summation.
(c) - indicates calculated results

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P.O. Drawer A
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Flags Legend:

B4 - Target analyte detected in blank at or above method acceptance criteria.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

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Crystal Geyser Roxane

QC Ref # 789376 - Orthophosphate as P (OPO4)	Analysis Date: 08/28/2014
201408280832 PP INLET	Analyzed by: 6Q4
QC Ref # 789539 - Nitrate, Nitrite by EPA 300.0	Analysis Date: 08/28/2014
201408280832 PP INLET	Analyzed by: CYP
QC Ref # 789541 - Chloride, Sulfate by EPA 300.0	Analysis Date: 08/28/2014
201408280832 PP INLET	Analyzed by: CYP
QC Ref # 789621 - Free Chlorine Residual (H3=past HT not complian	Analysis Date: 08/28/2014
201408280832 PP INLET	Analyzed by: NJR
QC Ref # 789623 - Total Chlorine Residual (H3=past HT not complian	Analysis Date: 08/28/2014
201408280832 PP INLET	Analyzed by: NJR
QC Ref # 789709 - Biochemical Oxygen Demand, Totl	Analysis Date: 08/29/2014
201408280832 PP INLET	Analyzed by: MIA8
QC Ref # 789900 - Haloacetic Acids	Analysis Date: 09/04/2014
201408280832 PP INLET	Analyzed by: MCP
QC Ref # 789944 - Ammonia Nitrogen	Analysis Date: 09/02/2014
201408280832 PP INLET	Analyzed by: MYH
QC Ref # 789984 - ICP Metals	Analysis Date: 09/03/2014
201408280832 PP INLET	Analyzed by: NINA
QC Ref # 790035 - Volatile Organics by GCMS	Analysis Date: 09/03/2014
201408280832 PP INLET	Analyzed by: KCP
QC Ref # 790093 - Total Suspended Solids (TSS)	Analysis Date: 09/03/2014
201408280832 PP INLET	Analyzed by: JRF
QC Ref # 790939 - ICPMS Metals	Analysis Date: 09/07/2014
201408280832 PP INLET	Analyzed by: AZS
QC Ref # 790990 - Alkalinity in CaCO3 units	Analysis Date: 09/05/2014
201408280832 PP INLET	Analyzed by: JMO
QC Ref # 790995 - PH (H3=past HT not compliant)	Analysis Date: 09/05/2014
201408280832 PP INLET	Analyzed by: JMO
QC Ref # 790999 - Specific Conductance	Analysis Date: 09/05/2014
201408280832 PP INLET	Analyzed by: JMO
QC Ref # 791354 - Total Organic Halides	Analysis Date: 09/08/2014
201408280832 PP INLET	Analyzed by: MYH
QC Ref # 791606 - ICPMS Metals	Analysis Date: 09/09/2014
201408280832 PP INLET	Analyzed by: AZS
QC Ref # 791883 - Total phosphorus as P (T-P)	Analysis Date: 09/12/2014
201408280832 PP INLET	Analyzed by: MYH

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Crystal Geysers Roxane

QC Ref # 791971 - Total Kjeldahl Nitrogen

201408280832 PP INLET

Analysis Date: 09/10/2014

Analyzed by: MYH

QC Ref # 792073 - Chemical Oxygen Demand (COD)

201408280832 PP INLET

Analysis Date: 09/12/2014

Analyzed by: 6Q4

QC Ref # 793433 - ICPMS Metals

201408280832 PP INLET

Analysis Date: 09/18/2014

Analyzed by: SXX

QC Ref # 793793 - ICPMS Metals

201408280832 PP INLET

Analysis Date: 09/21/2014

Analyzed by: AZS

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 789376 - Orthophosphate as P (OPO4) by 4500P-E/365.1					Analysis Date: 08/28/2014				
LCS1	Orthophosphate as P		0.25	0.234	mg/L	94	(90-110)		
LCS2	Orthophosphate as P		0.25	0.245	mg/L	98	(90-110)	20	4.6
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0100	mg/L	100	(50-150)		
MS_201408270848	Orthophosphate as P	0.44	0.5	0.945	mg/L	102	(90-110)		
MS_201408280372	Orthophosphate as P	0.49	0.5	1.01	mg/L	105	(90-110)		
MSD_201408270848	Orthophosphate as P	0.44	0.5	0.971	mg/L	107	(90-110)	20	2.7
MSD_201408280372	Orthophosphate as P	0.49	0.5	1.00	mg/L	103	(90-110)	20	0.0
QC Ref# 789539 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0					Analysis Date: 08/28/2014				
LCS1	Nitrate as Nitrogen by IC		2.5	2.40	mg/L	96	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	97	(90-110)	20	0.42
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0443	mg/L	89	(50-150)		
MS_201408290559	Nitrate as Nitrogen by IC	13	1.3	19.5	mg/L	100	(80-120)		
MS_201408290672	Nitrate as Nitrogen by IC	ND	1.3	1.20	mg/L	96	(80-120)		
MSD_201408290559	Nitrate as Nitrogen by IC	13	1.3	19.5	mg/L	100	(80-120)	20	0.0
MSD_201408290672	Nitrate as Nitrogen by IC	ND	1.3	1.22	mg/L	98	(80-120)	20	1.6
LCS1	Nitrite Nitrogen by IC		1.0	0.987	mg/L	99	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.987	mg/L	99	(90-110)	20	0.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0498	mg/L	100	(50-150)		
MS_201408290559	Nitrite Nitrogen by IC	ND	0.5	2.24	mg/L	90	(80-120)		
MS_201408290672	Nitrite Nitrogen by IC	ND	0.5	0.485	mg/L	97	(80-120)		
MSD_201408290559	Nitrite Nitrogen by IC	ND	0.5	2.25	mg/L	90	(80-120)	20	0.45
MSD_201408290672	Nitrite Nitrogen by IC	ND	0.5	0.483	mg/L	97	(80-120)	20	0.41
QC Ref# 789541 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 08/28/2014				
LCS1	Chloride		25	24.4	mg/L	98	(90-110)		
LCS2	Chloride		25	24.6	mg/L	98	(90-110)	20	0.82
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.430	mg/L	86	(50-150)		
MS_201408290672	Chloride	6.1	13	18.8	mg/L	102	(80-120)		
MS_201408290756	Chloride	110	13	174	mg/L	98	(80-120)		
MSD_201408290672	Chloride	6.1	13	19.0	mg/L	104	(80-120)	20	1.6
MSD_201408290756	Chloride	110	13	174	mg/L	99	(80-120)	20	0.0
LCS1	Sulfate		50	50.8	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.1	mg/L	102	(90-110)	20	0.59

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.894	mg/L	89	(50-150)		
MRLW	Sulfate		0.25	0.236	mg/L	94	(50-150)		
MS_201408290672	Sulfate	16	25	42.3	mg/L	105	(80-120)		
MS_201408290756	Sulfate	32	25	161	mg/L	103	(80-120)		
MSD_201408290672	Sulfate	16	25	42.7	mg/L	106	(80-120)	20	0.94
MSD_201408290756	Sulfate	32	25	161	mg/L	103	(80-120)	20	0.0

QC Ref# 789621 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH

Analysis Date: 08/28/2014

LCS1	Free Chlorine Residual		1.0	0.930	mg/L	93	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)	20	2.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.0900	mg/L	90	(50-150)		

QC Ref# 789623 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G

Analysis Date: 08/28/2014

LCS1	Total Chlorine Residual		1.0	0.970	mg/L	97	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.00	mg/L	100	(85-115)	20	3.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.0900	mg/L	90	(50-150)		

QC Ref# 789709 - Biochemical Oxygen Demand,Totl by SM5210B 405.1

Analysis Date: 08/29/2014

DUP1_201408280832	Biochemical Oxygen DemandTotl	5.0		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	182	mg/L	92	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				

QC Ref# 789900 - Haloacetic Acids by SM 6251B

Analysis Date: 09/03/2014

CCCH	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			101	%	101	(80-130)		
DUP1_201409020003	1,2,3-Trichloropropane (I)			103	%	103	(80-120)		
DUP2_201408280832	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			98.8	%	99	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS1_201409020002	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS2_201408300179	1,2,3-Trichloropropane (I)			105	%	105	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			97.8	%	98	(70-130)		
DUP1_201409020003	2,3-Dibromopropionic acid (S)			99.5	%	100	(70-130)		
DUP2_201408280832	2,3-Dibromopropionic acid (S)			105	%	105	(70-130)		

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS3	2,3-Dibromopropionic acid (S)			98.8	%	99	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			98.0	%	98	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			96.8	%	97	(70-130)		
MS1_201409020002	2,3-Dibromopropionic acid (S)			99.1	%	99	(70-130)		
MS2_201408300179	2,3-Dibromopropionic acid (S)			106	%	106	(70-130)		
CCCH	Bromochloroacetic acid		32	31.9	ug/L	100	(85-115)		
CCCM	Bromochloroacetic acid		20	20.0	ug/L	100	(85-115)		
DUP1_201409020003	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Bromochloroacetic acid		8.0	8.32	ug/L	104	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	1.15	ug/L	115	(50-150)		
MS1_201409020002	Bromochloroacetic acid	ND	20	19.8	ug/L	99	(84-123)		
MS2_201408300179	Bromochloroacetic acid	ND	32	32.6	ug/L	101	(84-123)		
CCCH	Dibromoacetic acid		32	32.7	ug/L	102	(85-115)		
CCCM	Dibromoacetic acid		20	20.7	ug/L	103	(85-115)		
DUP1_201409020003	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Dibromoacetic acid		8.0	8.70	ug/L	109	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	1.26	ug/L	126	(50-150)		
MS1_201409020002	Dibromoacetic acid	ND	20	20.5	ug/L	103	(84-122)		
MS2_201408300179	Dibromoacetic acid	ND	32	33.1	ug/L	103	(84-122)		
CCCH	Dichloroacetic acid		32	31.8	ug/L	100	(85-115)		
CCCM	Dichloroacetic acid		20	19.9	ug/L	100	(85-115)		
DUP1_201409020003	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Dichloroacetic acid		8.0	8.02	ug/L	100	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	1.20	ug/L	120	(50-150)		
MS1_201409020002	Dichloroacetic acid	ND	20	19.9	ug/L	99	(79-123)		
MS2_201408300179	Dichloroacetic acid	ND	32	31.8	ug/L	98	(79-123)		
CCCH	Monobromoacetic acid		32	31.9	ug/L	100	(85-115)		
CCCM	Monobromoacetic acid		20	19.9	ug/L	100	(85-115)		
DUP1_201409020003	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	8.51	ug/L	106	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Monobromoacetic acid		1.0	1.04	ug/L	104	(50-150)		
MS1_201409020002	Monobromoacetic acid	ND	20	19.5	ug/L	98	(81-122)		
MS2_201408300179	Monobromoacetic acid	ND	32	32.4	ug/L	101	(81-122)		
CCCH	Monochloroacetic acid		32	31.5	ug/L	99	(85-115)		
CCCM	Monochloroacetic acid		20	19.8	ug/L	99	(85-115)		
DUP1_201409020003	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	8.36	ug/L	105	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.88	ug/L	94	(50-150)		
MS1_201409020002	Monochloroacetic acid	ND	20	19.5	ug/L	98	(72-126)		
MS2_201408300179	Monochloroacetic acid	ND	32	26.8	ug/L	84	(72-126)		
CCCH	Trichloroacetic acid		32	33.0	ug/L	103	(85-115)		
CCCM	Trichloroacetic acid		20	20.8	ug/L	104	(85-115)		
DUP1_201409020003	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201408280832	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	8.19	ug/L	102	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.784	ug/L	78	(50-150)		
MS1_201409020002	Trichloroacetic acid	ND	20	21.2	ug/L	106	(82-124)		
MS2_201408300179	Trichloroacetic acid	ND	32	33.3	ug/L	104	(82-124)		

QC Ref# 789944 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 09/02/2014

LCS1	Ammonia Nitrogen		0.5	0.511	mg/L	102	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.513	mg/L	103	(90-110)	20	0.39
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0475	mg/L	95	(53-118)		
MS_201408250348	Ammonia Nitrogen	0.68	0.5	1.09	mg/L	<u>82</u>	(90-110)		
MS2_201408260275	Ammonia Nitrogen	ND	1.0	0.449	mg/L	<u>43</u>	(90-110)		
MSD_201408250348	Ammonia Nitrogen	0.68	0.5	1.10	mg/L	<u>84</u>	(90-110)	20	0.91
MSD2_201408260275	Ammonia Nitrogen	ND	1.0	0.448	mg/L	<u>43</u>	(90-110)	20	0.22

QC Ref# 789984 - ICP Metals by EPA 200.7

Analysis Date: 09/03/2014

LCS1	Calcium Total ICAP		50	50.1	mg/L	100	(85-115)		
LCS2	Calcium Total ICAP		50	50.8	mg/L	102	(85-115)	20	1.4
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.969	mg/L	97	(50-150)		
MS_201408290413	Calcium Total ICAP	47	50	96.6	mg/L	99	(70-130)		
MS2_201408300270	Calcium Total ICAP	96	50	143	mg/L	94	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201408290413	Calcium Total ICAP	47	50	91.7	mg/L	90	(70-130)	20	5.2
MSD2_201408300270	Calcium Total ICAP	96	50	163	mg/L	133	(70-130)	20	13
LCS1	Magnesium Total ICAP		20	19.5	mg/L	97	(85-115)		
LCS2	Magnesium Total ICAP		20	20.3	mg/L	102	(85-115)	20	4.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	105	(50-150)		
MS_201408290413	Magnesium Total ICAP	11	20	30.3	mg/L	97	(70-130)		
MS2_201408300270	Magnesium Total ICAP	20	20	39.3	mg/L	96	(70-130)		
MSD_201408290413	Magnesium Total ICAP	11	20	29.4	mg/L	92	(70-130)	20	3.0
MSD2_201408300270	Magnesium Total ICAP	20	20	44.0	mg/L	119	(70-130)	20	11
LCS1	Sodium Total ICAP		50	49.5	mg/L	99	(85-115)		
LCS2	Sodium Total ICAP		50	51.0	mg/L	102	(85-115)	20	3.0
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.22	mg/L	122	(50-150)		
MS_201408290413	Sodium Total ICAP	98	50	147	mg/L	98	(70-130)		
MS2_201408300270	Sodium Total ICAP	68	50	115	mg/L	94	(70-130)		
MSD_201408290413	Sodium Total ICAP	98	50	139	mg/L	82	(70-130)	20	5.6
MSD2_201408300270	Sodium Total ICAP	68	50	130	mg/L	124	(70-130)	20	12

QC Ref# 790035 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 09/03/2014

LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
LCS1	4-Bromofluorobenzene (S)			93.2	%	93	(70-130)		
LCS2	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	Bromodichloromethane		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromodichloromethane		5.0	5.21	ug/L	104	(70-130)	20	2.8
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	5.01	ug/L	100	(70-130)		
LCS2	Bromoform		5.0	4.60	ug/L	92	(70-130)	20	8.5
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	4.99	ug/L	100	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.69	ug/L	94	(70-130)	20	6.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.44	ug/L	89	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.73	ug/L	95	(70-130)	20	6.3
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			91.0	%	91	(70-130)		
QC Ref# 790093 - Total Suspended Solids (TSS) by SM 2540D						Analysis Date: 09/03/2014			
DUP_201408300252	Total Suspended Solids (TSS)	72		74.0	mg/L		(0-10)	10	2.7
DUP_201408300253	Total Suspended Solids (TSS)	300		314	mg/L		(0-10)	10	3.9
LCS1	Total Suspended Solids (TSS)		175	156	mg/L	89	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	150	mg/L	86	(71-107)	20	3.9
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	9.00	mg/L	90	(50-150)		
QC Ref# 790939 - ICPMS Metals by EPA 200.8						Analysis Date: 09/07/2014			
LCS1	Antimony Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.3	ug/L	101	(85-115)	20	0.20
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201409030477	Antimony Total ICAP/MS	ND	50	50.7	ug/L	101	(70-130)		
MS2_201409030481	Antimony Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)		
MSD_201409030477	Antimony Total ICAP/MS	ND	50	51.5	ug/L	103	(70-130)	20	1.6
MSD2_201409030481	Antimony Total ICAP/MS	ND	50	51.9	ug/L	104	(70-130)	20	3.1
LCS1	Arsenic Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	0.98
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.18	ug/L	118	(50-150)		
MS_201409030477	Arsenic Total ICAP/MS	ND	20	21.0	ug/L	101	(70-130)		
MS2_201409030481	Arsenic Total ICAP/MS	ND	20	20.8	ug/L	101	(70-130)		
MSD_201409030477	Arsenic Total ICAP/MS	ND	20	21.2	ug/L	102	(70-130)	20	0.95
MSD2_201409030481	Arsenic Total ICAP/MS	ND	20	21.1	ug/L	102	(70-130)	20	1.4
LCS1	Barium Total ICAP/MS		100	98.3	ug/L	98	(85-115)		
LCS2	Barium Total ICAP/MS		100	98.7	ug/L	99	(85-115)	20	0.41
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.98	ug/L	99	(50-150)		
MS_201409030477	Barium Total ICAP/MS	25	100	124	ug/L	100	(70-130)		
MS2_201409030481	Barium Total ICAP/MS	21	100	118	ug/L	97	(70-130)		
MSD_201409030477	Barium Total ICAP/MS	25	100	126	ug/L	101	(70-130)	20	0.80
MSD2_201409030481	Barium Total ICAP/MS	21	100	121	ug/L	100	(70-130)	20	2.5
LCS1	Beryllium Total ICAP/MS		5.0	5.29	ug/L	106	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.20	ug/L	104	(85-115)	20	1.7
MBLK	Beryllium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201409030477	Beryllium Total ICAP/MS	ND	5.0	5.27	ug/L	105	(70-130)		
MS2_201409030481	Beryllium Total ICAP/MS	ND	5.0	5.28	ug/L	106	(70-130)		
MSD_201409030477	Beryllium Total ICAP/MS	ND	5.0	5.22	ug/L	104	(70-130)	20	0.76
MSD2_201409030481	Beryllium Total ICAP/MS	ND	5.0	5.22	ug/L	104	(70-130)	20	1.1
LCS1	Cadmium Total ICAP/MS		20	21.1	ug/L	106	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.4	ug/L	107	(85-115)	20	1.4
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.519	ug/L	104	(50-150)		
MS_201409030477	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MS2_201409030481	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_201409030477	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	1.5
MSD2_201409030481	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)	20	2.4
LCS1	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	0.96
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.17	ug/L	117	(50-150)		
MS_201409030477	Chromium Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MS2_201409030481	Chromium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MSD_201409030477	Chromium Total ICAP/MS	ND	100	105	ug/L	104	(70-130)	20	1.9
MSD2_201409030481	Chromium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201409030477	Cobalt Total ICAP/MS	ND	100	98.6	ug/L	99	(70-130)		
MS2_201409030481	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201409030477	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.4
MSD2_201409030481	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Copper Total ICAP/MS		100	108	ug/L	108	(85-115)	20	0.93
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.41	ug/L	121	(50-150)		
MS_201409030477	Copper Total ICAP/MS	ND	100	101	ug/L	100	(70-130)		
MS2_201409030481	Copper Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MSD_201409030477	Copper Total ICAP/MS	ND	100	102	ug/L	101	(70-130)	20	0.99
MSD2_201409030481	Copper Total ICAP/MS	ND	100	103	ug/L	103	(70-130)	20	0.0
LCS1	Lead Total ICAP/MS		20	20.8	ug/L	104	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Lead Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.544	ug/L	109	(50-150)		
MS_201409030477	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)		
MS2_201409030481	Lead Total ICAP/MS	ND	20	20.7	ug/L	103	(70-130)		
MSD_201409030477	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	0.0
MSD2_201409030481	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Molybdenum Total ICAP/MS		100	112	ug/L	112	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	112	ug/L	113	(85-115)	20	0.89
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.29	ug/L	115	(50-150)		
MS_201409030477	Molybdenum Total ICAP/MS	ND	100	113	ug/L	112	(70-130)		
MS2_201409030481	Molybdenum Total ICAP/MS	ND	100	115	ug/L	114	(70-130)		
MSD_201409030477	Molybdenum Total ICAP/MS	ND	100	115	ug/L	114	(70-130)	20	1.8
MSD2_201409030481	Molybdenum Total ICAP/MS	ND	100	115	ug/L	114	(70-130)	20	0.0
LCS1	Nickel Total ICAP/MS		50	53.0	ug/L	106	(85-115)		
LCS2	Nickel Total ICAP/MS		50	53.5	ug/L	107	(85-115)	20	0.94
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.35	ug/L	107	(50-150)		
MS_201409030477	Nickel Total ICAP/MS	ND	50	49.9	ug/L	99	(70-130)		
MS2_201409030481	Nickel Total ICAP/MS	ND	50	51.3	ug/L	102	(70-130)		
MSD_201409030477	Nickel Total ICAP/MS	ND	50	51.4	ug/L	102	(70-130)	20	3.0
MSD2_201409030481	Nickel Total ICAP/MS	ND	50	51.3	ug/L	102	(70-130)	20	0.0
LCS1	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.3	ug/L	102	(85-115)	20	1.5
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.15	ug/L	103	(50-150)		
MS_201409030477	Selenium Total ICAP/MS	ND	20	19.3	ug/L	94	(70-130)		
MS2_201409030481	Selenium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)		
MSD_201409030477	Selenium Total ICAP/MS	ND	20	19.5	ug/L	95	(70-130)	20	1.0
MSD2_201409030481	Selenium Total ICAP/MS	ND	20	19.5	ug/L	97	(70-130)	20	2.1
LCS1	Silver Total ICAP/MS		50	53.2	ug/L	106	(85-115)		
LCS2	Silver Total ICAP/MS		50	53.9	ug/L	108	(85-115)	20	1.3
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.522	ug/L	104	(50-150)		
MS_201409030477	Silver Total ICAP/MS	ND	50	49.5	ug/L	99	(70-130)		
MS2_201409030481	Silver Total ICAP/MS	ND	50	49.8	ug/L	100	(70-130)		
MSD_201409030477	Silver Total ICAP/MS	ND	50	49.9	ug/L	100	(70-130)	20	0.81

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201409030481	Silver Total ICAP/MS	ND	50	51.0	ug/L	102	(70-130)	20	2.4
LCS1	Thallium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.49
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201409030477	Thallium Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)		
MS2_201409030481	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201409030477	Thallium Total ICAP/MS	ND	20	20.7	ug/L	104	(70-130)	20	0.96
MSD2_201409030481	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.97
LCS1	Vanadium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.17	ug/L	106	(50-150)		
MS_201409030477	Vanadium Total ICAP/MS	ND	100	104	ug/L	103	(70-130)		
MS2_201409030481	Vanadium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MSD_201409030477	Vanadium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	1.9
MSD2_201409030481	Vanadium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	0.95
LCS2	Zinc Total ICAP/MS		100	111	ug/L	111	(85-115)	20	13
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	25.8	ug/L	129	(50-150)		
MS_201409030477	Zinc Total ICAP/MS	ND	100	104	ug/L	96	(70-130)		
MS2_201409030481	Zinc Total ICAP/MS	ND	100	110	ug/L	100	(70-130)		
MSD_201409030477	Zinc Total ICAP/MS	ND	100	110	ug/L	101	(70-130)	20	4.7
MSD2_201409030481	Zinc Total ICAP/MS	ND	100	106	ug/L	96	(70-130)	20	3.7

QC Ref# 790990 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 09/05/2014

LCS1	Alkalinity in CaCO3 units		100	96.3	mg/L	96	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	90.0	mg/L	90	(90-110)	20	6.8
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.80	mg/L	90	(50-150)		
MS_201408280694	Alkalinity in CaCO3 units	210	100	293	mg/L	82	(80-120)		
MS_201408280714	Alkalinity in CaCO3 units	160	100	262	mg/L	101	(80-120)		
MSD_201408280694	Alkalinity in CaCO3 units	210	100	292	mg/L	81	(80-120)	20	0.34
MSD_201408280714	Alkalinity in CaCO3 units	160	100	270	mg/L	110	(80-120)	20	0.0

QC Ref# 790995 - PH (H3=past HT not compliant) by SM4500-HB

Analysis Date: 09/05/2014

DUP_201408280694	PH (H3=past HT not compliant)	7.5		7.55	Units		(0-20)	20	0.66
DUP_201408280714	PH (H3=past HT not compliant)	7.8		7.78	Units		(0-20)	20	0.39
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.17
QC Ref# 790999 - Specific Conductance by SM2510B					Analysis Date: 09/05/2014				
DUP1_201408280694	Specific Conductance	1300		1310	umho/cm		(0-20)	20	0.74
DUP2_201409080059	Specific Conductance	1300		1310	umho/cm		(0-20)	20	0.030
LCS1	Specific Conductance		1000	1010	umho/cm	101	(95-105)		
LCS2	Specific Conductance		1000	1010	umho/cm	101	(95-105)	20	0.0
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.70	umho/cm	104	(50-150)		
QC Ref# 791354 - Total Organic Halides by SW9020/SM5320					Analysis Date: 09/08/2014				
LCS1	Total Organic Halides Rep 1		50	46.2	ug/L	92	(85-115)		
LCS2	Total Organic Halides Rep 1		200	191	ug/L	96	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	4.96	ug/L	99	(50-150)		
MS_201408290767	Total Organic Halides Rep 1	ND	50	53.6	ug/L	100	(90-110)		
MSD_201408290767	Total Organic Halides Rep 1	ND	50	61.5	ug/L	116	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.00	ug/L	100	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.4	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 2		200	198	ug/L	99	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	5.31	ug/L	106	(50-150)		
MS_201408290767	Total Organic Halides Rep 2	ND	50	53.6	ug/L	107	(90-110)		
MSD_201408290767	Total Organic Halides Rep 2	ND	50	61.5	ug/L	123	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.00	ug/L	100	(97-103)		
QC Ref# 791606 - ICPMS Metals by EPA 200.8					Analysis Date: 09/09/2014				
LCS1	Antimony Total ICAP/MS		50	51.6	ug/L	103	(85-115)		
LCS2	Antimony Total ICAP/MS		50	52.2	ug/L	105	(85-115)	20	1.1
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201408270524	Antimony Total ICAP/MS	ND	50	52.8	ug/L	105	(70-130)		
MS2_201408270949	Antimony Total ICAP/MS	ND	50	52.7	ug/L	105	(70-130)		
MSD_201408270524	Antimony Total ICAP/MS	ND	50	53.3	ug/L	106	(70-130)	20	0.94
MSD2_201408270949	Antimony Total ICAP/MS	ND	50	52.8	ug/L	106	(70-130)	20	0.19
LCS1	Arsenic Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.841	ug/L	84	(50-150)		
MS_201408270524	Arsenic Total ICAP/MS	ND	20	21.9	ug/L	110	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201408270949	Arsenic Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)		
MSD_201408270524	Arsenic Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	0.0
MSD2_201408270949	Arsenic Total ICAP/MS	ND	20	21.2	ug/L	106	(70-130)	20	0.47
LCS1	Barium Total ICAP/MS		100	99.8	ug/L	100	(85-115)		
LCS2	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1.2
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.03	ug/L	102	(50-150)		
MS_201408270524	Barium Total ICAP/MS	75	100	176	ug/L	101	(70-130)		
MS2_201408270949	Barium Total ICAP/MS	4.0	100	105	ug/L	105	(70-130)		
MSD_201408270524	Barium Total ICAP/MS	75	100	176	ug/L	101	(70-130)	20	0.0
MSD2_201408270949	Barium Total ICAP/MS	4.0	100	105	ug/L	105	(70-130)	20	0.0
LCS1	Beryllium Total ICAP/MS		5.0	4.88	ug/L	98	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.98	ug/L	100	(85-115)	20	2.2
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.08	ug/L	108	(50-150)		
MS_201408270524	Beryllium Total ICAP/MS	ND	5.0	5.18	ug/L	103	(70-130)		
MS2_201408270949	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)		
MSD_201408270524	Beryllium Total ICAP/MS	ND	5.0	4.94	ug/L	99	(70-130)	20	4.7
MSD2_201408270949	Beryllium Total ICAP/MS	ND	5.0	5.09	ug/L	102	(70-130)	20	1.8
LCS1	Cadmium Total ICAP/MS		20	20.9	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.1	ug/L	105	(85-115)	20	0.95
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.530	ug/L	106	(50-150)		
MS_201408270524	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MS2_201408270949	Cadmium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201408270524	Cadmium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	0.49
MSD2_201408270949	Cadmium Total ICAP/MS	ND	20	21.1	ug/L	106	(70-130)	20	1.4
LCS1	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.97
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201408270524	Chromium Total ICAP/MS	38	100	128	ug/L	97	(70-130)		
MS2_201408270949	Chromium Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MSD_201408270524	Chromium Total ICAP/MS	38	100	134	ug/L	103	(70-130)	20	4.6
MSD2_201408270949	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	2.9
LCS1	Cobalt Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201408270524	Cobalt Total ICAP/MS	ND	100	96.4	ug/L	96	(70-130)		
MS2_201408270949	Cobalt Total ICAP/MS	ND	100	97.8	ug/L	98	(70-130)		
MSD_201408270524	Cobalt Total ICAP/MS	ND	100	97.2	ug/L	97	(70-130)	20	0.83
MSD2_201408270949	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	3.2
LCS1	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Copper Total ICAP/MS		100	100	ug/L	101	(85-115)	20	0.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.30	ug/L	115	(50-150)		
MS_201408270524	Copper Total ICAP/MS	3.0	100	97.4	ug/L	95	(70-130)		
MS2_201408270949	Copper Total ICAP/MS	ND	100	100	ug/L	99	(70-130)		
MSD_201408270524	Copper Total ICAP/MS	3.0	100	98.8	ug/L	96	(70-130)	20	1.5
MSD2_201408270949	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0
LCS1	Lead Total ICAP/MS		20	20.5	ug/L	103	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.97
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.541	ug/L	108	(50-150)		
MS_201408270524	Lead Total ICAP/MS	ND	20	21.1	ug/L	104	(70-130)		
MS2_201408270949	Lead Total ICAP/MS	ND	20	21.1	ug/L	105	(70-130)		
MSD_201408270524	Lead Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	0.47
MSD2_201408270949	Lead Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	0.47
LCS1	Molybdenum Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	0.40
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.15	ug/L	108	(50-150)		
MS_201408270524	Molybdenum Total ICAP/MS	3.3	100	104	ug/L	101	(70-130)		
MS2_201408270949	Molybdenum Total ICAP/MS	6.6	100	110	ug/L	103	(70-130)		
MSD_201408270524	Molybdenum Total ICAP/MS	3.3	100	104	ug/L	101	(70-130)	20	0.0
MSD2_201408270949	Molybdenum Total ICAP/MS	6.6	100	111	ug/L	105	(70-130)	20	0.91
LCS1	Nickel Total ICAP/MS		50	49.8	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.0	ug/L	100	(85-115)	20	0.40
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.08	ug/L	102	(50-150)		
MS_201408270524	Nickel Total ICAP/MS	5.5	50	52.6	ug/L	105	(70-130)		
MS2_201408270949	Nickel Total ICAP/MS	ND	50	49.7	ug/L	100	(70-130)		
MSD_201408270524	Nickel Total ICAP/MS	5.5	50	53.0	ug/L	106	(70-130)	20	0.76
MSD2_201408270949	Nickel Total ICAP/MS	ND	50	50.7	ug/L	101	(70-130)	20	2.0
LCS1	Selenium Total ICAP/MS		20	19.7	ug/L	98	(85-115)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.5
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.23	ug/L	105	(50-150)		
MS_201408270524	Selenium Total ICAP/MS	ND	20	20.7	ug/L	98	(70-130)		
MS2_201408270949	Selenium Total ICAP/MS	ND	20	20.7	ug/L	104	(70-130)		
MSD_201408270524	Selenium Total ICAP/MS	ND	20	20.3	ug/L	96	(70-130)	20	2.0
MSD2_201408270949	Selenium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.5
LCS1	Silver Total ICAP/MS		50	51.7	ug/L	103	(85-115)		
LCS2	Silver Total ICAP/MS		50	52.1	ug/L	104	(85-115)	20	0.77
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.512	ug/L	103	(50-150)		
MS_201408270524	Silver Total ICAP/MS	ND	50	48.6	ug/L	97	(70-130)		
MS2_201408270949	Silver Total ICAP/MS	ND	50	49.9	ug/L	100	(70-130)		
MSD_201408270524	Silver Total ICAP/MS	ND	50	48.7	ug/L	97	(70-130)	20	0.21
MSD2_201408270949	Silver Total ICAP/MS	ND	50	50.9	ug/L	102	(70-130)	20	2.0
LCS1	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	2.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201408270524	Thallium Total ICAP/MS	ND	20	20.7	ug/L	103	(70-130)		
MS2_201408270949	Thallium Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)		
MSD_201408270524	Thallium Total ICAP/MS	ND	20	20.9	ug/L	104	(70-130)	20	0.96
MSD2_201408270949	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.48
LCS1	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.05	ug/L	102	(50-150)		
MS_201408270524	Vanadium Total ICAP/MS	7	100	111	ug/L	104	(70-130)		
MS2_201408270949	Vanadium Total ICAP/MS	5.8	100	109	ug/L	104	(70-130)		
MSD_201408270524	Vanadium Total ICAP/MS	7	100	111	ug/L	104	(70-130)	20	0.0
MSD2_201408270949	Vanadium Total ICAP/MS	5.8	100	111	ug/L	105	(70-130)	20	1.8
LCS1	Zinc Total ICAP/MS		100	102	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	22.8	ug/L	114	(50-150)		
MS_201408270524	Zinc Total ICAP/MS	84	100	167	ug/L	104	(70-130)		
MS2_201408270949	Zinc Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201408270524	Zinc Total ICAP/MS	84	100	160	ug/L	97	(70-130)	20	4.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201408270949	Zinc Total ICAP/MS	ND	100	103	ug/L	103	(70-130)	20	0.98
QC Ref# 791883 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 09/12/2014			
LCS1	Total phosphorus as P		0.4	0.412	mg/L	103	(90-110)		
LCS2	Total phosphorus as P		0.4	0.396	mg/L	99	(90-110)	20	4.0
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0130	mg/L	65	(50-150)		
MS_201408200575	Total phosphorus as P	ND	0.4	0.397	mg/L	99	(90-110)		
MS_201408220234	Total phosphorus as P	ND	0.4	0.389	mg/L	97	(90-110)		
MS_201408250156	Total phosphorus as P	ND	0.4	0.325	mg/L	81	(90-110)		
MSD_201408200575	Total phosphorus as P	ND	0.4	0.382	mg/L	96	(90-110)	20	3.9
MSD_201408220234	Total phosphorus as P	ND	0.4	0.400	mg/L	100	(90-110)	20	2.8
MSD_201408250156	Total phosphorus as P	ND	0.4	0.358	mg/L	90	(90-110)	20	9.7
QC Ref# 791971 - Total Kjeldahl Nitrogen by EPA 351.2						Analysis Date: 09/10/2014			
LCS1	Kjeldahl Nitrogen		4.0	3.90	mg/L	98	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.84	mg/L	96	(90-110)	20	1.6
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.244	mg/L	122	(50-150)		
MS_201409110731	Kjeldahl Nitrogen	ND	4.0	3.35	mg/L	84	(90-110)		
MS_201409110732	Kjeldahl Nitrogen	0.22	4.0	3.92	mg/L	93	(90-110)		
MSD_201409110731	Kjeldahl Nitrogen	ND	4.0	3.44	mg/L	86	(90-110)	10	2.6
MSD_201409110732	Kjeldahl Nitrogen	0.22	4.0	3.95	mg/L	93	(90-110)	10	0.76
QC Ref# 792073 - Chemical Oxygen Demand (COD) by EPA 410.4						Analysis Date: 09/12/2014			
LCS1	Chemical Oxygen Demand (COD)		50	49.0	mg/L	98	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)	20	2.1
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	6.00	mg/L	120	(50-150)		
MS_201408280714	Chemical Oxygen Demand (COD)	5.0	50	55.0	mg/L	100	(90-110)		
MSD_201408280714	Chemical Oxygen Demand (COD)	5.0	50	52.0	mg/L	94	(90-110)	20	5.6
QC Ref# 793433 - ICPMS Metals by EPA 200.8						Analysis Date: 09/18/2014			
LCS1	Antimony dissolved ICAP/MS		50	55.4	ug/L	111	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	54.4	ug/L	109	(85-115)	20	1.8
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201409050288	Antimony dissolved ICAP/MS	ND	50	197	ug/L	393	(70-130)		
MSD_201409050288	Antimony dissolved ICAP/MS	ND	50	78.4	ug/L	157	(70-130)	20	86
LCS1	Antimony Total ICAP/MS		50	55.4	ug/L	111	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Antimony Total ICAP/MS		50	54.4	ug/L	109	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201409050288	Antimony Total ICAP/MS	ND	50	197	ug/L	393	(70-130)		
MSD_201409050288	Antimony Total ICAP/MS	ND	50	78.4	ug/L	157	(70-130)	20	86
LCS1	Arsenic dissolved ICAP/MS		20	21.6	ug/L	108	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	21.4	ug/L	107	(85-115)	20	0.93
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.23	ug/L	123	(50-150)		
MS_201409050288	Arsenic dissolved ICAP/MS	ND	20	77.2	ug/L	384	(70-130)		
MSD_201409050288	Arsenic dissolved ICAP/MS	ND	20	30.3	ug/L	149	(70-130)	20	87
LCS1	Arsenic Total ICAP/MS		20	21.6	ug/L	108	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.4	ug/L	107	(85-115)	20	0.93
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.23	ug/L	123	(50-150)		
MS_201409050288	Arsenic Total ICAP/MS	ND	20	77.2	ug/L	384	(70-130)		
MSD_201409050288	Arsenic Total ICAP/MS	ND	20	30.3	ug/L	149	(70-130)	20	87
LCS1	Barium dissolved ICAP/MS		100	112	ug/L	112	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	108	ug/L	108	(85-115)	20	3.6
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.41	ug/L	120	(50-150)		
MS_201409050288	Barium dissolved ICAP/MS	ND	100	421	ug/L	420	(70-130)		
MSD_201409050288	Barium dissolved ICAP/MS	ND	100	164	ug/L	163	(70-130)	20	88
LCS1	Barium Total ICAP/MS		100	112	ug/L	112	(85-115)		
LCS2	Barium Total ICAP/MS		100	108	ug/L	108	(85-115)	20	3.6
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.41	ug/L	120	(50-150)		
MS_201409050288	Barium Total ICAP/MS	ND	100	421	ug/L	420	(70-130)		
MSD_201409050288	Barium Total ICAP/MS	ND	100	164	ug/L	163	(70-130)	20	88
LCS1	Beryllium dissolved ICAP/MS		5.0	5.26	ug/L	105	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.30	ug/L	106	(85-115)	20	0.76
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.16	ug/L	117	(50-150)		
MS_201409050288	Beryllium dissolved ICAP/MS	ND	5.0	21.0	ug/L	419	(70-130)		
MSD_201409050288	Beryllium dissolved ICAP/MS	ND	5.0	8.23	ug/L	165	(70-130)	20	200
LCS1	Beryllium Total ICAP/MS		5.0	5.26	ug/L	105	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.30	ug/L	106	(85-115)	20	0.76
MBLK	Beryllium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.16	ug/L	117	(50-150)		
MS_201409050288	Beryllium Total ICAP/MS	ND	5.0	21.0	ug/L	419	(70-130)		
MSD_201409050288	Beryllium Total ICAP/MS	ND	5.0	8.23	ug/L	165	(70-130)	20	87
LCS1	Cadmium dissolved ICAP/MS		20	22.0	ug/L	110	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	21.9	ug/L	110	(85-115)	20	0.46
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.536	ug/L	107	(50-150)		
MS_201409050288	Cadmium dissolved ICAP/MS	ND	20	86.6	ug/L	433	(70-130)		
MSD_201409050288	Cadmium dissolved ICAP/MS	ND	20	34.3	ug/L	172	(70-130)	20	87
LCS1	Cadmium Total ICAP/MS		20	22.0	ug/L	110	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.9	ug/L	110	(85-115)	20	0.46
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.536	ug/L	107	(50-150)		
MS_201409050288	Cadmium Total ICAP/MS	ND	20	86.6	ug/L	433	(70-130)		
MSD_201409050288	Cadmium Total ICAP/MS	ND	20	34.3	ug/L	172	(70-130)	20	87
LCS1	Chromium dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.32	ug/L	132	(50-150)		
MS_201409050288	Chromium dissolved ICAP/MS	12	100	431	ug/L	418	(70-130)		
MSD_201409050288	Chromium dissolved ICAP/MS	12	100	179	ug/L	167	(70-130)	20	83
LCS1	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.32	ug/L	132	(50-150)		
MS_201409050288	Chromium Total ICAP/MS	13	100	431	ug/L	418	(70-130)		
MSD_201409050288	Chromium Total ICAP/MS	13	100	179	ug/L	167	(70-130)	20	83
LCS1	Cobalt dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	99.6	ug/L	100	(85-115)	20	1.4
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201409050288	Cobalt dissolved ICAP/MS	ND	100	399	ug/L	399	(70-130)		
MSD_201409050288	Cobalt dissolved ICAP/MS	ND	100	152	ug/L	152	(70-130)	20	90
LCS1	Cobalt Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	99.6	ug/L	100	(85-115)	20	1.4
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201409050288	Cobalt Total ICAP/MS	ND	100	399	ug/L	399	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201409050288	Cobalt Total ICAP/MS	ND	100	152	ug/L	152	(70-130)	20	90
LCS1	Copper dissolved ICAP/MS		100	108	ug/L	108	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	106	ug/L	106	(85-115)	20	1.9
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.41	ug/L	121	(50-150)		
MS_201409050288	Copper dissolved ICAP/MS	ND	100	409	ug/L	409	(70-130)		
MSD_201409050288	Copper dissolved ICAP/MS	ND	100	162	ug/L	161	(70-130)	20	87
LCS1	Copper Total ICAP/MS		100	108	ug/L	108	(85-115)		
LCS2	Copper Total ICAP/MS		100	106	ug/L	106	(85-115)	20	1.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.41	ug/L	121	(50-150)		
MS_201409050288	Copper Total ICAP/MS	ND	100	409	ug/L	409	(70-130)		
MSD_201409050288	Copper Total ICAP/MS	ND	100	162	ug/L	161	(70-130)	20	87
LCS1	Lead dissolved ICAP/MS		20	21.9	ug/L	110	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	21.8	ug/L	109	(85-115)	20	0.46
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.612	ug/L	122	(50-150)		
MS_201409050288	Lead dissolved ICAP/MS	ND	20	82.3	ug/L	412	(70-130)		
MSD_201409050288	Lead dissolved ICAP/MS	ND	20	31.8	ug/L	159	(70-130)	20	89
LCS1	Lead Total ICAP/MS		20	21.9	ug/L	110	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.8	ug/L	109	(85-115)	20	0.46
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.612	ug/L	122	(50-150)		
MS_201409050288	Lead Total ICAP/MS	ND	20	82.3	ug/L	412	(70-130)		
MSD_201409050288	Lead Total ICAP/MS	ND	20	31.8	ug/L	159	(70-130)	20	89
LCS1	Molybdenum dissolved ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	109	ug/L	109	(85-115)	20	0.91
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.26	ug/L	113	(50-150)		
MS_201409050288	Molybdenum dissolved ICAP/MS	ND	100	407	ug/L	407	(70-130)		
MSD_201409050288	Molybdenum dissolved ICAP/MS	ND	100	162	ug/L	162	(70-130)	20	86
LCS1	Molybdenum Total ICAP/MS		100	110	ug/L	110	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	109	ug/L	109	(85-115)	20	0.91
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.26	ug/L	113	(50-150)		
MS_201409050288	Molybdenum Total ICAP/MS	ND	100	407	ug/L	407	(70-130)		
MSD_201409050288	Molybdenum Total ICAP/MS	ND	100	162	ug/L	162	(70-130)	20	86
LCS1	Nickel dissolved ICAP/MS		50	52.1	ug/L	104	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Nickel dissolved ICAP/MS		50	51.6	ug/L	103	(85-115)	20	0.96
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	5.53	ug/L	111	(50-150)		
MS_201409050288	Nickel dissolved ICAP/MS	ND	50	198	ug/L	<u>396</u>	(70-130)		
MSD_201409050288	Nickel dissolved ICAP/MS	ND	50	77.6	ug/L	<u>155</u>	(70-130)	20	<u>87</u>
LCS1	Nickel Total ICAP/MS		50	52.1	ug/L	104	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.6	ug/L	103	(85-115)	20	0.96
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.53	ug/L	111	(50-150)		
MS_201409050288	Nickel Total ICAP/MS	ND	50	198	ug/L	<u>396</u>	(70-130)		
MSD_201409050288	Nickel Total ICAP/MS	ND	50	77.6	ug/L	<u>155</u>	(70-130)	20	<u>87</u>
LCS1	Selenium dissolved ICAP/MS		20	21.5	ug/L	108	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	21.6	ug/L	108	(85-115)	20	0.46
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.87	ug/L	117	(50-150)		
MS_201409050288	Selenium dissolved ICAP/MS	ND	20	82.4	ug/L	<u>412</u>	(70-130)		
MSD_201409050288	Selenium dissolved ICAP/MS	ND	20	33.0	ug/L	<u>165</u>	(70-130)	20	<u>86</u>
LCS1	Selenium Total ICAP/MS		20	21.5	ug/L	108	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.6	ug/L	108	(85-115)	20	0.46
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.87	ug/L	117	(50-150)		
MS_201409050288	Selenium Total ICAP/MS	ND	20	82.4	ug/L	<u>412</u>	(70-130)		
MSD_201409050288	Selenium Total ICAP/MS	ND	20	33.0	ug/L	<u>165</u>	(70-130)	20	<u>86</u>
LCS1	Thallium dissolved ICAP/MS		20	20.7	ug/L	104	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.9	ug/L	105	(85-115)	20	0.96
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201409050288	Thallium dissolved ICAP/MS	ND	20	64.4	ug/L	<u>322</u>	(70-130)		
MSD_201409050288	Thallium dissolved ICAP/MS	ND	20	25.2	ug/L	126	(70-130)	20	<u>88</u>
LCS1	Thallium Total ICAP/MS		20	20.7	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.9	ug/L	105	(85-115)	20	0.96
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201409050288	Thallium Total ICAP/MS	ND	20	64.4	ug/L	<u>322</u>	(70-130)		
MSD_201409050288	Thallium Total ICAP/MS	ND	20	25.2	ug/L	126	(70-130)	20	<u>88</u>
LCS1	Vanadium Dissolved ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	99.3	ug/L	99	(85-115)	20	0.70
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.47	ug/L	116	(50-150)		
MS_201409050288	Vanadium Dissolved ICAP/MS	ND	100	399	ug/L	398	(70-130)		
MSD_201409050288	Vanadium Dissolved ICAP/MS	ND	100	162	ug/L	161	(70-130)	20	85
LCS1	Vanadium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.3	ug/L	99	(85-115)	20	0.70
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.47	ug/L	116	(50-150)		
MS_201409050288	Vanadium Total ICAP/MS	ND	100	399	ug/L	398	(70-130)		
MSD_201409050288	Vanadium Total ICAP/MS	ND	100	162	ug/L	161	(70-130)	20	85
LCS1	Zinc dissolved ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	1.9
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	22.5	ug/L	112	(50-150)		
MS_201409050288	Zinc dissolved ICAP/MS	ND	100	485	ug/L	484	(70-130)		
MSD_201409050288	Zinc dissolved ICAP/MS	ND	100	171	ug/L	170	(70-130)	20	96
LCS1	Zinc Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	22.5	ug/L	112	(50-150)		
MS_201409050288	Zinc Total ICAP/MS	ND	100	485	ug/L	484	(70-130)		
MSD_201409050288	Zinc Total ICAP/MS	ND	100	171	ug/L	170	(70-130)	20	96

QC Ref# 793793 - ICPMS Metals by EPA 200.8

Analysis Date: 09/21/2014

LCS1	Silver Total ICAP/MS		50	51.1	ug/L	102	(85-115)		
LCS2	Silver Total ICAP/MS		50	51.1	ug/L	102	(85-115)	20	0.0
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.506	ug/L	101	(50-150)		
MS_201409110540	Silver Total ICAP/MS	ND	50	36.3	ug/L	73	(70-130)		
MS2_201409110553	Silver Total ICAP/MS	ND	50	43.2	ug/L	86	(70-130)		
MSD_201409110540	Silver Total ICAP/MS	ND	50	36.7	ug/L	73	(70-130)	20	1.1
MSD2_201409110553	Silver Total ICAP/MS	ND	50	43.5	ug/L	87	(70-130)	20	0.69

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

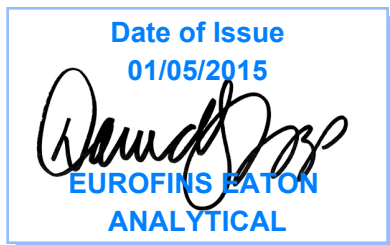
750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 512117
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 512117
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **December 12, 2014 at 1123**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date																																				
201412120269	East Pond	12/11/2014 1020																																				
	<table border="1"> <tr> <td>@ICPMS</td> <td>@ICPMS</td> <td>@HAA6</td> </tr> <tr> <td>@QUANT2000 18HR</td> <td>@THM524</td> <td>@VOAPP</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Ammonia Nitrogen</td> <td>Bicarb.Alkalinity as HCO3,calc</td> </tr> <tr> <td>Biochemical Oxygen Demand,Totl</td> <td>Calcium Total ICAP</td> <td>Chemical Oxygen Demand (COD)</td> </tr> <tr> <td>Chloride</td> <td>Dissolved Oxygen</td> <td>Field pH</td> </tr> <tr> <td>Field Specific Conductance</td> <td>Free Chlorine Residual</td> <td>Freight - RUSH</td> </tr> <tr> <td>Magnesium Total ICAP</td> <td>Nitrate as Nitrogen by IC</td> <td>Nitrite Nitrogen by IC</td> </tr> <tr> <td>Orthophosphate as P (OPO4)</td> <td>PH (H3=past HT not compliant)</td> <td>Sodium Total ICAP</td> </tr> <tr> <td>Specific Conductance</td> <td>Sulfate</td> <td>Surfactants</td> </tr> <tr> <td>Total Chlorine Residual</td> <td>Total Dissolved Solid (TDS)</td> <td>Total Kjeldahl Nitrogen</td> </tr> <tr> <td>Total Nitrogen-Calc</td> <td>Total Organic Halogen</td> <td>Total phosphorus as P</td> </tr> <tr> <td>Total Suspended Solids (TSS)</td> <td></td> <td></td> </tr> </table>	@ICPMS	@ICPMS	@HAA6	@QUANT2000 18HR	@THM524	@VOAPP	Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)	Chloride	Dissolved Oxygen	Field pH	Field Specific Conductance	Free Chlorine Residual	Freight - RUSH	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	Sodium Total ICAP	Specific Conductance	Sulfate	Surfactants	Total Chlorine Residual	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc	Total Organic Halogen	Total phosphorus as P	Total Suspended Solids (TSS)			
@ICPMS	@ICPMS	@HAA6																																				
@QUANT2000 18HR	@THM524	@VOAPP																																				
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Total Suspended Solids (TSS)																																						
201412120270	Travel Blank	12/11/2014 1020																																				
	@VOAPP TB																																					

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @HAA6 -- Haloacetic Acids
- @QUANT2000 18HR -- Quantitray Coliforms 18 Hour
- @THM524 -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624

512117

CHAIN OF CUSTODY RECORD



750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: 10-8-2-2=10.6 **SAMPLES CHECKED AGAINST COC BY:** [Signature]

SAMPLE TEMP RECEIVED AT: 4.6 - 2 = 4.4 **SAMPLES LOGGED IN BY:** [Signature] (check for yes)

Colton / No. California / Arizona °C (Compliance: 4 ± 2 °C)

Monrovia 4.4 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen Partially Frozen Thawed Wet Ice No Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:		COMPLIANCE SAMPLES		NON-COMPLIANCE SAMPLES		SAMPLER COMMENTS
COMPANY/AGENCY NAME:	PROJECT CODE:	- Requires state forms		REGULATION INVOLVED:		
<u>CG Roxane LLC</u>	<u>CGR-olancha</u>	Type of samples (circle one):		ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)		
<u>CRYSTAL-ROX</u>	<u>wastewater</u>	SEE ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes) <input type="checkbox"/> OR		
TAT requested: rush by adv notice only	STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___	list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)				
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA
<u>12/11/14</u>	<u>10:20</u>	<u>East Pond</u>		<u>WW</u>		

*** MATRIX TYPES:** RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil

RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SAMPLED BY: [Signature] **PRINT NAME:** George Custaneda **COMPANY/TITLE:** CG Roxane LLC **DATE:** 12/11/14 **TIME:** 10:20

RELINQUISHED BY: [Signature]

RECEIVED BY: [Signature] USA 12/12/14 19:23

RELINQUISHED BY: _____

RECEIVED BY: _____



Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Crystal Geyser Roxane
David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 98713
Created By: DST
Deliver By: 10/10/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: Wastewater
PO#/JOB#:

Ship Sample Kits to
Crystal Geyser Roxane
1210 South Highway 395
Olancha, CA 93549

Attn: Manuel Luna - Shipping
Phone: 760-764-1822
Fax: 760-764-2861

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if any	UN DOT #
10	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
10	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
10	@ICPMS, Surfactants	1 500ml poly no preservative	
10	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
10	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
10	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
10	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Alkalinity in CaCO3 units, PH (HS=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
10	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
10	Biochemical Oxygen Demand Totl	1 1L poly no preservative	
10	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
10	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
10	Dissolved Oxygen	1 BOD bottle	
10	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
10	Orthophosphate as P	1 125ml poly OPO4_no preservative	
10	Total Dissolved Solid (TDS), Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	
10	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments

SHIPPING: Please deliver ASAP, but no later than 10/10/14 - 10 separate coolers.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/12/2014 1123

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201412120269 East Pond				
12/13/2014 12:43	18 Hour Total Coliform Confrm (Large Wells)		49		PW	1
12/13/2014 12:43	18 Hour Total Coliform Confrm (Small Wells)		48		PW	1
12/18/2014 14:21	Alkalinity in CaCO3 units		80		mg/L	2
12/23/2014 16:20	Arsenic dissolved ICAP/MS		9.9		ug/L	1
12/17/2014 21:08	Arsenic Total ICAP/MS		10	10	ug/L	1
12/23/2014 16:20	Barium dissolved ICAP/MS		9.6		ug/L	2
12/17/2014 21:08	Barium Total ICAP/MS		10	2000	ug/L	2
12/19/2014 10:19	Bicarb.Alkalinity as HCO3calc		98		mg/L	2
12/13/2014 09:18	Biochemical Oxygen Demand,Totl		7.8		mg/L	3
12/16/2014 22:45	Calcium Total ICAP		22		mg/L	1
12/15/2014 11:09	Chemical Oxygen Demand (COD)		12		mg/L	5
12/13/2014 02:38	Chloride		4.5	250	mg/L	1
12/23/2014 16:20	Copper dissolved ICAP/MS		6.8		ug/L	2
12/17/2014 21:08	Copper Total ICAP/MS		8.1	1300	ug/L	2
12/12/2014 17:31	Dissolved Oxygen		6.9		mg/L	0.5
12/11/2014 10:20	Field pH		7.25		Units	0.1
12/11/2014 10:20	Field Specific Conductance		222		umho/cm	
12/18/2014 11:33	Kjeldahl Nitrogen		0.34		mg/L	0.2
12/16/2014 22:45	Magnesium Total ICAP		2.2		mg/L	0.1
12/23/2014 16:20	Molybdenum dissolved ICAP/MS		4.5		ug/L	2
12/17/2014 21:08	Molybdenum Total ICAP/MS		4.9		ug/L	2
12/13/2014 02:38	Nitrate as Nitrogen by IC		0.16	10	mg/L	0.1
12/12/2014 15:38	Orthophosphate as P		0.50		mg/L	0.01
12/17/2014 17:45	PH (H3=past HT not compliant)		7.6		Units	0.1
12/16/2014 22:45	Sodium Total ICAP		29		mg/L	1
12/17/2014 17:45	Specific Conductance, 25 C		250		umho/cm	2
12/13/2014 02:38	Sulfate		29	250	mg/L	0.5
12/12/2014 16:34	Surfactants		0.18	0.5	mg/L	0.05
12/13/2014 12:43	Total Coliform Bacteria		>2419.6		MPN/100 mL	1
12/18/2014 10:18	Total Dissolved Solids (TDS)		200	500	mg/L	10
12/18/2014 14:52	Total Nitrogen-Calc		0.50		mg/L	0.2
12/22/2014 21:23	Total Organic Halides Average		14		ug/L	10
12/22/2014 21:23	Total Organic Halides Rep 1		15		ug/L	10
12/22/2014 21:23	Total Organic Halides Rep 2		13		ug/L	10
12/19/2014 17:28	Total phosphorus as P		0.57		mg/L	0.02
12/23/2014 16:20	Zinc dissolved ICAP/MS		20		ug/L	20

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/12/2014 1123

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
12/17/2014 21:08	Zinc Total ICAP/MS		25	5000	ug/L	20

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 512117

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1123

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
East Pond (201412120269)						Sampled on 12/11/2014 1020		
2510B/ SW9050 - Field Specific Conductance								
	12/11/2014	10:20	809313	(2510B/ SW9050)	Field Specific Conductance	222	umho/cm	1
EPA 150.1 - Field pH								
	12/11/2014	10:20	809312	(EPA 150.1)	Field pH	7.25	Units	0.1 1
EPA 200.8 - ICPMS Metals								
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Arsenic dissolved ICAP/MS	9.9	ug/L	1 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Arsenic Total ICAP/MS	10	ug/L	1 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Barium dissolved ICAP/MS	9.6	ug/L	2 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Barium Total ICAP/MS	10	ug/L	2 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	23:39	810490	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Copper dissolved ICAP/MS	6.8	ug/L	2 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Copper Total ICAP/MS	8.1	ug/L	2 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Molybdenum dissolved ICAP/MS	4.5	ug/L	2 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Molybdenum Total ICAP/MS	4.9	ug/L	2 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5 1
12/12/2014	12/29/2014	15:49	811253	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/18/2014	23:39	810490	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3 1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3 1

Rounding on totals after summation.
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Laboratory Data
 Report: 512117

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1123

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/12/2014	12/23/2014	16:20	810900	(EPA 200.8)	Zinc dissolved ICAP/MS	20	ug/L	20	1
12/12/2014	12/17/2014	21:08	809963	(EPA 200.8)	Zinc Total ICAP/MS	25	ug/L	20	1
EPA 200.7 - ICP Metals									
12/12/2014	12/16/2014	22:45	809636	(EPA 200.7)	Calcium Total ICAP	22	mg/L	1	1
12/12/2014	12/16/2014	22:45	809636	(EPA 200.7)	Magnesium Total ICAP	2.2	mg/L	0.1	1
12/12/2014	12/16/2014	22:45	809636	(EPA 200.7)	Sodium Total ICAP	29	mg/L	1	1
SM 9223B - Quantitray Coliforms 18 Hour									
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	18 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	18 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	18 Hour Total Coliform Confm (Large Wells)	49	PW	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	18 Hour Total Coliform Confm (Small Wells)	48	PW	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	Total Coliform Bacteria	>2419.6	MPN/100 mL	1	1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
12/12/2014	12/13/2014	12:43	809269	(SM 9223B)	Total Coliform Bacteria (P/A)	P			1
SW9020/SM5320 - Total Organic Halides									
12/22/2014	12/22/2014	21:23	810985	(SW9020/SM5320)	Total Organic Halides Average	14	ug/L	10	1
12/22/2014	12/22/2014	21:23	810985	(SW9020/SM5320)	Total Organic Halides Rep 1	15	ug/L	10	1
12/22/2014	12/22/2014	21:23	810985	(SW9020/SM5320)	Total Organic Halides Rep 2	13	ug/L	10	1
EPA 353-351 - Total Nitrogen-Calc									
	12/18/2014	14:52		(EPA 353-351)	Total Nitrogen-Calc	0.50	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc									
	12/19/2014	10:19		(SM2330B)	Bicarb.Alkalinity as HCO3calc	98	mg/L	2	1
SM 6251B - Haloacetic Acids									
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	1,2,3-Trichloropropane	101	%		1
12/17/2014	12/17/2014	23:22	809947	(SM 6251B)	2,3-Dibromopropionic acid	105	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	12/13/2014	02:38	809119	(EPA 300.0)	Nitrate as Nitrogen by IC	0.16	mg/L	0.1	1

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 Report: 512117

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancha, CA 93549

Samples Received on:
 12/12/2014 1123

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	12/13/2014	02:38 809119	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	12/13/2014	02:38 809122	(EPA 300.0)	Chloride	4.5	mg/L	1	1
	12/13/2014	02:38 809122	(EPA 300.0)	Sulfate	29	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	12/19/2014	17:28 809641	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.57	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	12/18/2014	11:33 809995	(EPA 351.2)	Kjeldahl Nitrogen	0.34	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	12/22/2014	14:13 810929	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	1,2-Dichloroethane-d4	106	%		1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	4-Bromofluorobenzene	99	%		1
12/16/2014	12/17/2014	6:57 809769	(EPA 524.2)	Toluene-d8	95	%		1
EPA 624 - Volatile Organics by EPA 624								
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Acetone	ND	ug/L	10	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Bromoform	ND	ug/L	0.5	1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1123

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Bromomethane (Methyl Bromide)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Chloromethane(Methyl Chloride)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	1,2-Dichloroethane-d4	106	%		1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	4-Bromofluorobenzene	99	%		1
12/16/2014	12/17/2014	6:57 809318	(EPA 624)	Toluene-d8	95	%		1
SM 2320B - Alkalinity in CaCO3 units								
	12/18/2014	14:21 810089	(SM 2320B)	Alkalinity in CaCO3 units	80	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
12/17/2014	12/18/2014	10:18 809954	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	200	mg/L	10	1

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Crystal Geyser Roxane
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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM4500 - Dissolved Oxygen								
	12/12/2014	17:31 809098	(SM4500)	Dissolved Oxygen	6.9 (H3)	mg/L	0.5	1
SM4500-HB - PH (H3=past HT not compliant)								
	12/17/2014	17:45 809869	(SM4500-HB)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	12/17/2014	17:55 809921	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
SM 5540C/EPA 425.1 - Surfactants								
	12/12/2014	16:34 809062	(SM 5540C/EPA 425.1)	Surfactants	0.18	mg/L	0.05	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	12/15/2014	11:09 808104	(EPA 410.4)	Chemical Oxygen Demand (COD)	12	mg/L	5	1
SM2510B - Specific Conductance								
	12/17/2014	17:45 809871	(SM2510B)	Specific Conductance, 25 C	250	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	12/13/2014	09:18 809140	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	7.8	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	12/12/2014	15:38 809084	(4500P-E/365.1)	Orthophosphate as P	0.50	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	12/12/2014	15:00 809112	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	12/12/2014	15:00 809282	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

Travel Blank (201412120270)

Sampled on 12/11/2014 1020

EPA 624 - Volatile Organics by EPA 624								
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	Acetone	ND	ug/L	10	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	5:04 809318	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 512117

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1123

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Bromoform	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Bromomethane (Methyl Bromide)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Carbon disulfide	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Carbon Tetrachloride	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Chlorobenzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Chloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Chloromethane(Methyl Chloride)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Dichlorodifluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Dichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Ethyl benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) m,p-Xylenes	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) o-Xylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Styrene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Tetrahydrofuran	ND	ug/L	10	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Toluene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Total 1,3-Dichloropropene	ND	ug/L	1	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Trichlorofluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Vinyl Acetate	ND	ug/L	10	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Vinyl chloride (VC)	ND	ug/L	0.3	1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) 1,2-Dichloroethane-d4	103	%		1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) 4-Bromofluorobenzene	93	%		1
12/16/2014	12/17/2014	5:04	809318	(EPA 624) Toluene-d8	97	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Flags Legend:

H3 - Sample was received and/ or analysis requested past holding time.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

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Crystal Geysler Roxane

QC Ref # 808104 - Chemical Oxygen Demand (COD)		Analysis Date: 12/15/2014
201412120269	East Pond	Analyzed by: 6Q4
QC Ref # 809062 - Surfactants		Analysis Date: 12/12/2014
201412120269	East Pond	Analyzed by: MIA8
QC Ref # 809084 - Orthophosphate as P (OPO4)		Analysis Date: 12/12/2014
201412120269	East Pond	Analyzed by: MIA8
QC Ref # 809098 - Dissolved Oxygen		Analysis Date: 12/12/2014
201412120269	East Pond	Analyzed by: MXT
QC Ref # 809112 - Total Chlorine Residual (H3=past HT not complian		Analysis Date: 12/12/2014
201412120269	East Pond	Analyzed by: NJR
QC Ref # 809119 - Nitrate, Nitrite by EPA 300.0		Analysis Date: 12/13/2014
201412120269	East Pond	Analyzed by: CYP
QC Ref # 809122 - Chloride, Sulfate by EPA 300.0		Analysis Date: 12/13/2014
201412120269	East Pond	Analyzed by: CYP
QC Ref # 809140 - Biochemical Oxygen Demand, Totl		Analysis Date: 12/13/2014
201412120269	East Pond	Analyzed by: MIA8
QC Ref # 809269 - Quantitray Coliforms 18 Hour		Analysis Date: 12/13/2014
201412120269	East Pond	Analyzed by: WAE
QC Ref # 809282 - Free Chlorine Residual (H3=past HT not complian		Analysis Date: 12/12/2014
201412120269	East Pond	Analyzed by: NJR
QC Ref # 809312 - Field pH		Analysis Date: 12/11/2014
201412120269	East Pond	Analyzed by: ADT
QC Ref # 809313 - Field Specific Conductance		Analysis Date: 12/11/2014
201412120269	East Pond	Analyzed by: ADT
QC Ref # 809318 - Volatile Organics by EPA 624		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: KAM
201412120270	Travel Blank	Analyzed by: KAM
QC Ref # 809636 - ICP Metals		Analysis Date: 12/16/2014
201412120269	East Pond	Analyzed by: NINA
QC Ref # 809641 - Total phosphorus as P (T-P)		Analysis Date: 12/19/2014
201412120269	East Pond	Analyzed by: KXS
QC Ref # 809769 - Volatile Organics by GCMS		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: KAM
QC Ref # 809869 - PH (H3=past HT not compliant)		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: 6Q4
QC Ref # 809871 - Specific Conductance		Analysis Date: 12/17/2014

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Crystal Geysers Roxane

201412120269	East Pond	Analyzed by: 6Q4
QC Ref # 809921 - Total Suspended Solids (TSS)		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: JRF
QC Ref # 809947 - Haloacetic Acids		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: A4H
QC Ref # 809954 - Total Dissolved Solids (TDS)		Analysis Date: 12/18/2014
201412120269	East Pond	Analyzed by: JRF
QC Ref # 809963 - ICPMS Metals		Analysis Date: 12/17/2014
201412120269	East Pond	Analyzed by: AZS
QC Ref # 809995 - Total Kjeldahl Nitrogen		Analysis Date: 12/18/2014
201412120269	East Pond	Analyzed by: KXS
QC Ref # 810089 - Alkalinity in CaCO3 units		Analysis Date: 12/18/2014
201412120269	East Pond	Analyzed by: 6Q4
QC Ref # 810490 - ICPMS Metals		Analysis Date: 12/18/2014
201412120269	East Pond	Analyzed by: AZS
QC Ref # 810900 - ICPMS Metals		Analysis Date: 12/23/2014
201412120269	East Pond	Analyzed by: SXX
QC Ref # 810929 - Ammonia Nitrogen		Analysis Date: 12/22/2014
201412120269	East Pond	Analyzed by: MYH
QC Ref # 810985 - Total Organic Halides		Analysis Date: 12/22/2014
201412120269	East Pond	Analyzed by: KXS
QC Ref # 811253 - ICPMS Metals		Analysis Date: 12/29/2014
201412120269	East Pond	Analyzed by: AZS

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 808104 - Chemical Oxygen Demand (COD) by EPA 410.4						Analysis Date: 12/15/2014			
LCS1	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)	20	0.0
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	5.00	mg/L	100	(50-150)		
MS_201412080191	Chemical Oxygen Demand (COD)	ND	50	44.0	mg/L	<u>88</u>	(90-110)		
MSD_201412080191	Chemical Oxygen Demand (COD)	ND	50	45.0	mg/L	90	(90-110)	20	2.3
QC Ref# 809062 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 12/12/2014			
LCS1	Surfactants		0.2	0.208	mg/L	104	(90-110)		
LCS2	Surfactants		0.2	0.208	mg/L	104	(90-110)	20	0.0
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0582	mg/L	116	(50-150)		
MS_201412110625	Surfactants	ND	0.2	0.212	mg/L	102	(80-120)		
MSD_201412110625	Surfactants	ND	0.2	0.197	mg/L	95	(80-120)	20	7.3
QC Ref# 809084 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 12/12/2014			
LCS1	Orthophosphate as P		0.25	0.253	mg/L	101	(90-110)		
LCS2	Orthophosphate as P		0.25	0.261	mg/L	104	(90-110)	20	3.1
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0100	mg/L	100	(50-150)		
MS_201412120383	Orthophosphate as P	ND	0.5	0.508	mg/L	102	(90-110)		
MSD_201412120383	Orthophosphate as P	ND	0.5	0.503	mg/L	101	(90-110)	20	0.99
QC Ref# 809098 - Dissolved Oxygen by SM4500						Analysis Date: 12/12/2014			
MBLK	Dissolved Oxygen			<0.5	mg/L				
QC Ref# 809112 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 12/12/2014			
LCS1	Total Chlorine Residual		1.0	0.980	mg/L	98	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.01	mg/L	101	(85-115)	20	3.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 809119 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 12/12/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	96	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0452	mg/L	90	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0112	mg/L	90	(50-150)		
MS_201412120132	Nitrate as Nitrogen by IC	ND	1.3	2.42	mg/L	97	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412120237	Nitrate as Nitrogen by IC	0.55	1.3	1.76	mg/L	97	(80-120)		
MSD_201412120132	Nitrate as Nitrogen by IC	ND	1.3	2.42	mg/L	97	(80-120)	20	0.41
MSD_201412120237	Nitrate as Nitrogen by IC	0.55	1.3	1.77	mg/L	98	(80-120)	20	0.57
LCS1	Nitrite Nitrogen by IC		1.0	0.962	mg/L	96	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.957	mg/L	96	(90-110)	20	0.52
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0460	mg/L	92	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0120	mg/L	96	(50-150)		
MS_201412120132	Nitrite Nitrogen by IC	ND	0.5	0.844	mg/L	84	(80-120)		
MS_201412120237	Nitrite Nitrogen by IC	ND	0.5	0.493	mg/L	99	(80-120)		
MSD_201412120132	Nitrite Nitrogen by IC	ND	0.5	0.847	mg/L	85	(80-120)	20	0.36
MSD_201412120237	Nitrite Nitrogen by IC	ND	0.5	0.496	mg/L	99	(80-120)	20	0.61

QC Ref# 809122 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 12/12/2014

LCS1	Chloride		25	24.6	mg/L	98	(90-110)		
LCS2	Chloride		25	24.5	mg/L	98	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.399	mg/L	80	(50-150)		
MS_201412120132	Chloride	36	13	59.7	mg/L	96	(80-120)		
MS_201412120237	Chloride	1.1	13	13.4	mg/L	98	(80-120)		
MSD_201412120132	Chloride	36	13	59.8	mg/L	96	(80-120)	20	0.17
MSD_201412120237	Chloride	1.1	13	13.4	mg/L	98	(80-120)	20	0.0
LCS1	Sulfate		50	51.2	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.2	mg/L	102	(90-110)	20	0.0
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.936	mg/L	94	(50-150)		
MRLLW	Sulfate		0.25	0.250	mg/L	100	(50-150)		
MS_201412120132	Sulfate	110	25	161	mg/L	94	(80-120)		
MS_201412120237	Sulfate	3.2	25	28.8	mg/L	102	(80-120)		
MSD_201412120132	Sulfate	110	25	161	mg/L	94	(80-120)	20	0.0
MSD_201412120237	Sulfate	3.2	25	28.9	mg/L	103	(80-120)	20	0.35

QC Ref# 809140 - Biochemical Oxygen Demand,Totl by SM5210B 405.1

Analysis Date: 12/13/2014

DUP1_201412120269	Biochemical Oxygen DemandTotl	7.8		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	177	mg/L	89	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				

QC Ref# 809282 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH

Analysis Date: 12/12/2014

LCS1	Free Chlorine Residual		1.0	0.930	mg/L	93	(85-115)		
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Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)	20	1.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 809318 - Volatile Organics by EPA 624 by EPA 624						Analysis Date: 12/16/2014			
LCS1	1,1,1-Trichloroethane		20	18.1	ug/L	91	(79-121)		
LCS2	1,1,1-Trichloroethane		20	20.4	ug/L	102	(79-121)	20	12
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.410	ug/L	82	(50-150)		
MS_201412090243	1,1,1-Trichloroethane	ND	10	11.3	ug/L	113	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	19.7	ug/L	99	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	21.1	ug/L	106	(77-126)	20	6.9
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201412090243	1,1,2,2-Tetrachloroethane	ND	10	9.93	ug/L	99	(79-130)		
LCS1	1,1,2-Trichloroethane		20	19.1	ug/L	96	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.2	ug/L	106	(79-116)	20	10
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.390	ug/L	78	(50-150)		
MS_201412090243	1,1,2-Trichloroethane	ND	10	10.2	ug/L	102	(76-129)		
LCS1	1,1-Dichloroethane		20	18.4	ug/L	92	(77-129)		
LCS2	1,1-Dichloroethane		20	20.9	ug/L	105	(77-129)	20	13
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-146)		
LCS1	1,1-Dichloroethylene		20	18.9	ug/L	95	(77-139)		
LCS2	1,1-Dichloroethylene		20	22.4	ug/L	112	(77-139)	20	17
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.440	ug/L	88	(50-150)		
MS_201412090243	1,1-Dichloroethylene	ND	10	10.8	ug/L	108	(75-134)		
LCS1	1,2-Dichloroethane		20	18.4	ug/L	92	(81-122)		
LCS2	1,2-Dichloroethane		20	20.9	ug/L	104	(81-122)	20	13
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	1,2-Dichloroethane	ND	10	10.7	ug/L	107	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.4	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			92.4	%	92	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLW	1,2-Dichloroethane-d4 (S)			89.4	%	89	(70-130)		
MS_201412090243	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
LCS1	1,2-Dichloropropane		20	19.0	ug/L	95	(77-118)		
LCS2	1,2-Dichloropropane		20	21.1	ug/L	105	(77-118)	20	11
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
MS_201412090243	1,2-Dichloropropane	ND	10	10.4	ug/L	104	(73-132)		
LCS1	2-Butanone (MEK)		200	175	ug/L	88	(65-122)		
LCS2	2-Butanone (MEK)		200	195	ug/L	97	(65-122)	20	11
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.82	ug/L	96	(50-150)		
MS_201412090243	2-Butanone (MEK)	ND	100	96.1	ug/L	96	(59-129)		
LCS1	2-Hexanone		200	197	ug/L	99	(72-128)		
LCS2	2-Hexanone		200	218	ug/L	109	(72-128)	20	10
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.39	ug/L	88	(50-150)		
MS_201412090243	2-Hexanone	ND	100	108	ug/L	109	(71-134)		
LCS1	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.6	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			109	%	109	(70-130)		
MRLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201412090243	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	195	ug/L	98	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	217	ug/L	108	(76-130)	20	11
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.41	ug/L	88	(50-150)		
MS_201412090243	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(75-136)		
LCS1	Acetone		200	190	ug/L	95	(47-117)		
LCS2	Acetone		200	216	ug/L	108	(47-117)	20	13
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	3.53	ug/L	71	(50-150)		
MS_201412090243	Acetone	ND	100	107	ug/L	107	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	18.6	ug/L	93	(60-156)		
LCS2	Benzene		20	20.8	ug/L	104	(60-156)	20	11
MBLK	Benzene			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Benzene		0.5	0.450	ug/L	90	(50-150)		
MS_201412090243	Benzene	ND	10	10.5	ug/L	105	(76-133)		
LCS1	Bromodichloromethane		20	19.0	ug/L	95	(77-113)		
LCS2	Bromodichloromethane		20	21.3	ug/L	106	(77-113)	20	11
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Bromodichloromethane	ND	10	10.0	ug/L	100	(77-130)		
LCS1	Bromoform		20	18.9	ug/L	95	(54-134)		
LCS2	Bromoform		20	19.6	ug/L	98	(54-134)	20	3.6
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.400	ug/L	80	(50-150)		
MS_201412090243	Bromoform	ND	10	9.60	ug/L	96	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	16.8	ug/L	84	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	21.0	ug/L	105	(67-144)	20	<u>22</u>
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Bromomethane (Methyl Bromide)	ND	10	13.4	ug/L	134	(55-147)		
LCS1	Carbon disulfide		20	17.1	ug/L	86	(63-131)		
LCS2	Carbon disulfide		20	19.4	ug/L	97	(63-131)	20	13
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.500	ug/L	100	(50-150)		
MS_201412090243	Carbon disulfide	ND	10	10.4	ug/L	104	(65-155)		
LCS1	Carbon Tetrachloride		20	18.2	ug/L	91	(73-127)		
LCS2	Carbon Tetrachloride		20	20.0	ug/L	100	(73-127)	20	9.4
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.330	ug/L	66	(50-150)		
MS_201412090243	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(71-151)		
LCS1	Chlorobenzene		20	19.0	ug/L	95	(57-166)		
LCS2	Chlorobenzene		20	21.3	ug/L	107	(57-166)	20	11
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.500	ug/L	100	(50-150)		
MS_201412090243	Chlorobenzene	ND	10	10.6	ug/L	106	(77-132)		
LCS1	Chlorodibromomethane		20	19.6	ug/L	98	(77-113)		
LCS2	Chlorodibromomethane		20	21.4	ug/L	107	(77-113)	20	8.8
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Chlorodibromomethane	ND	10	10.2	ug/L	102	(68-136)		
LCS1	Chloroethane		20	16.7	ug/L	83	(70-133)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloroethane		20	19.7	ug/L	98	(70-133)	20	17
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	Chloroethane	ND	10	11.1	ug/L	111	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	18.1	ug/L	91	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	19.9	ug/L	99	(78-117)	20	9.5
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Chloroform (Trichloromethane)	ND	10	10.3	ug/L	103	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	16.0	ug/L	80	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	19.6	ug/L	98	(78-134)	20	20
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.620	ug/L	124	(50-150)		
MS_201412090243	Chloromethane(Methyl Chloride)	ND	10	11.5	ug/L	114	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	18.5	ug/L	93	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	20.2	ug/L	101	(80-114)	20	8.8
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412090243	cis-1,2-Dichloroethylene	ND	10	10.6	ug/L	106	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	19.8	ug/L	99	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	21.5	ug/L	108	(68-123)	20	8.2
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201412090243	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(65-120)		
LCS1	Dichlorodifluoromethane		20	16.8	ug/L	84	(46-165)		
LCS2	Dichlorodifluoromethane		20	20.9	ug/L	105	(46-165)	20	<u>22</u>
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.370	ug/L	74	(50-150)		
MS_201412090243	Dichlorodifluoromethane	ND	10	12.8	ug/L	128	(30-169)		
LCS1	Dichloromethane		20	18.4	ug/L	92	(77-121)		
LCS2	Dichloromethane		20	20.8	ug/L	104	(77-121)	20	12
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412090243	Dichloromethane	ND	10	10.5	ug/L	105	(75-132)		
LCS1	Ethyl benzene		20	20.0	ug/L	100	(79-122)		
LCS2	Ethyl benzene		20	22.4	ug/L	112	(79-122)	20	11
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090243	Ethyl benzene	ND	10	11.1	ug/L	111	(68-146)		
LCS1	m,p-Xylenes		40	39.4	ug/L	98	(82-123)		
LCS2	m,p-Xylenes		40	45.4	ug/L	113	(82-123)	20	14
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.03	ug/L	103	(50-150)		
MRLW	m,p-Xylenes		0.5	0.510	ug/L	102	(50-150)		
MS_201412090243	m,p-Xylenes	ND	20	22.1	ug/L	110	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	19.4	ug/L	97	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.9	ug/L	105	(76-124)	20	7.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201412090243	m-Dichlorobenzene (1,3-DCB)	ND	10	10.8	ug/L	108	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	18.4	ug/L	92	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	20.5	ug/L	103	(70-130)	20	11
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.550	ug/L	110	(50-150)		
MS_201412090243	Methyl Tert-butyl ether (MTBE)	ND	10	9.97	ug/L	100	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	18.6	ug/L	93	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.7	ug/L	104	(79-118)	20	11
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	o-Dichlorobenzene (1,2-DCB)	ND	10	10.1	ug/L	101	(80-125)		
LCS1	o-Xylene		20	19.0	ug/L	95	(79-120)		
LCS2	o-Xylene		20	21.5	ug/L	108	(79-120)	20	12
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.450	ug/L	90	(50-150)		
MS_201412090243	o-Xylene	ND	10	10.8	ug/L	108	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	19.7	ug/L	99	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	4.5
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201412090243	p-Dichlorobenzene (1,4-DCB)	ND	10	11.1	ug/L	111	(71-145)		
LCS1	Styrene		20	17.7	ug/L	89	(77-125)		
LCS2	Styrene		20	19.7	ug/L	99	(77-125)	20	11
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.600	ug/L	120	(50-150)		
MS_201412090243	Styrene	ND	10	5.41	ug/L	<u>54</u>	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	19.5	ug/L	98	(79-122)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Tetrachloroethylene (PCE)		20	21.3	ug/L	107	(79-122)	20	8.8
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Tetrachloroethylene (PCE)	ND	10	11.1	ug/L	111	(72-146)		
LCS1	Tetrahydrofuran		200	195	ug/L	98	(67-130)		
LCS2	Tetrahydrofuran		200	220	ug/L	110	(67-130)	20	12
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	5.58	ug/L	112	(50-150)		
MS_201412090243	Tetrahydrofuran	ND	100	110	ug/L	110	(68-134)		
LCS1	Toluene		20	18.4	ug/L	92	(80-118)		
LCS2	Toluene		20	21.2	ug/L	106	(80-118)	20	15
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Toluene	ND	10	10.5	ug/L	105	(66-143)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			90.8	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
MRLW	Toluene-d8 (S)			99.4	%	99	(70-130)		
MS_201412090243	Toluene-d8 (S)			99.8	%	100	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	18.0	ug/L	90	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	20.8	ug/L	104	(82-122)	20	14
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.420	ug/L	84	(50-150)		
MS_201412090243	trans-1,2-Dichloroethylene	ND	10	10.5	ug/L	105	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	20.6	ug/L	103	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	22.5	ug/L	113	(64-126)	20	8.8
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.310	ug/L	62	(50-150)		
MS_201412090243	trans-1,3-Dichloropropene	ND	10	9.73	ug/L	97	(61-127)		
LCS1	Trichloroethylene (TCE)		20	19.9	ug/L	99	(78-119)		
LCS2	Trichloroethylene (TCE)		20	22.1	ug/L	110	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Trichloroethylene (TCE)	ND	10	11.3	ug/L	113	(71-139)		
LCS1	Trichlorofluoromethane		20	16.1	ug/L	81	(70-145)		
LCS2	Trichlorofluoromethane		20	18.5	ug/L	93	(70-145)	20	14
MBLK	Trichlorofluoromethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Trichlorofluoromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412090243	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(63-161)		
LCS1	Vinyl Acetate		100	93.2	ug/L	93	(72-136)		
LCS2	Vinyl Acetate		100	104	ug/L	104	(72-136)	20	11
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.94	ug/L	118	(50-150)		
MS_201412090243	Vinyl Acetate	ND	50	39.5	ug/L	79	(55-146)		
LCS1	Vinyl chloride (VC)		20	19.2	ug/L	96	(66-140)		
LCS2	Vinyl chloride (VC)		20	21.6	ug/L	108	(66-140)	20	12
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.390	ug/L	78	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.280	ug/L	93	(50-150)		
MS_201412090243	Vinyl chloride (VC)	ND	10	12.4	ug/L	123	(56-159)		

QC Ref# 809636 - ICP Metals by EPA 200.7

Analysis Date: 12/16/2014

LCS1	Calcium Total ICAP		50	51.3	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	50.9	mg/L	102	(85-115)	20	0.78
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.990	mg/L	99	(50-150)		
MS_201412040238	Calcium Total ICAP	3.8	50	55.3	mg/L	103	(70-130)		
MS2_201412100800	Calcium Total ICAP	52	50	103	mg/L	102	(70-130)		
MSD_201412040238	Calcium Total ICAP	3.8	50	56.2	mg/L	105	(70-130)	20	1.8
MSD2_201412100800	Calcium Total ICAP	52	50	106	mg/L	108	(70-130)	20	2.9
LCS1	Magnesium Total ICAP		20	21.2	mg/L	106	(85-115)		
LCS2	Magnesium Total ICAP		20	21.0	mg/L	105	(85-115)	20	0.95
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201412040238	Magnesium Total ICAP	1.0	20	22.3	mg/L	107	(70-130)		
MS2_201412100800	Magnesium Total ICAP	12	20	33.1	mg/L	106	(70-130)		
MSD_201412040238	Magnesium Total ICAP	1.0	20	22.6	mg/L	108	(70-130)	20	1.3
MSD2_201412100800	Magnesium Total ICAP	12	20	34.3	mg/L	112	(70-130)	20	3.6
LCS1	Sodium Total ICAP		50	51.2	mg/L	102	(85-115)		
LCS2	Sodium Total ICAP		50	50.7	mg/L	101	(85-115)	20	0.98
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.02	mg/L	102	(50-150)		
MS_201412040238	Sodium Total ICAP	2.4	50	53.8	mg/L	103	(70-130)		
MS2_201412100800	Sodium Total ICAP	88	50	137	mg/L	99	(70-130)		
MSD_201412040238	Sodium Total ICAP	2.4	50	54.4	mg/L	104	(70-130)	20	1.1
MSD2_201412100800	Sodium Total ICAP	88	50	143	mg/L	111	(70-130)	20	4.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 809641 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 12/19/2014			
LCS1	Total phosphorus as P		0.4	0.404	mg/L	101	(90-110)		
LCS2	Total phosphorus as P		0.4	0.391	mg/L	98	(90-110)	20	3.3
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0193	mg/L	97	(50-150)		
MS_201412120253	Total phosphorus as P	1.1	0.4	1.48	mg/L	98	(90-110)		
MSD_201412120253	Total phosphorus as P	1.1	0.4	1.49	mg/L	100	(90-110)	20	0.67
QC Ref# 809769 - Volatile Organics by GCMS by EPA 524.2						Analysis Date: 12/17/2014			
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
LCS1	Bromodichloromethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	Bromodichloromethane		5.0	5.12	ug/L	102	(70-130)	20	6.2
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	4.84	ug/L	97	(70-130)		
LCS2	Bromoform		5.0	4.68	ug/L	94	(70-130)	20	3.4
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	5.33	ug/L	107	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.08	ug/L	102	(70-130)	20	4.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	5.55	ug/L	111	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.30	ug/L	106	(70-130)	20	4.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			96.8	%	97	(70-130)		
MBLK	Toluene-d8 (S)			90.8	%	91	(70-130)		
QC Ref# 809869 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 12/17/2014			
DUP_201412120269	PH (H3=past HT not compliant)	7.6	0.01	7.59	Units		(0-20)	20	0.40
DUP_201412160216	PH (H3=past HT not compliant)	8.2	0.01	8.18	Units		(0-20)	20	0.37
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 809871 - Specific Conductance by SM2510B						Analysis Date: 12/17/2014			
DUP1_201412120269	Specific Conductance	250	2	248	umho/cm		(0-20)	20	0.12

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP1_201412160216	Specific Conductance	330	2	328	umho/cm		(0-20)	20	0.15
LCS1	Specific Conductance		1000	1000	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1010	umho/cm	101	(95-105)	20	1
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.70	umho/cm	104	(50-150)		

QC Ref# 809921 - Total Suspended Solids (TSS) by SM 2540D

Analysis Date: 12/17/2014

DUP_201412110751	Total Suspended Solids (TSS)	90	10	92.0	mg/L		(0-10)	10	2.2
DUP_201412110786	Total Suspended Solids (TSS)	250	10	236	mg/L		(0-10)	10	4.1
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	172	mg/L	98	(71-107)	20	1.2
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	12.0	mg/L	120	(50-150)		

QC Ref# 809947 - Haloacetic Acids by SM 6251B

Analysis Date: 12/17/2014

CCCH	1,2,3-Trichloropropane (I)			98.9	%	99	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			100	%	100	(80-130)		
DUP1_201412120269	1,2,3-Trichloropropane (I)			100	%	101	(80-120)		
DUP2_201412110863	1,2,3-Trichloropropane (I)			98.6	%	99	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			99.9	%	100	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS1_201412120253	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS2_201412110862	1,2,3-Trichloropropane (I)			97.7	%	98	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			94.5	%	95	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP1_201412120269	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
DUP2_201412110863	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			98.6	%	99	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			92.8	%	93	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			89.5	%	90	(70-130)		
MS1_201412120253	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
MS2_201412110862	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
CCCH	Bromochloroacetic acid		32	31.0	ug/L	97	(85-115)		
CCCM	Bromochloroacetic acid		20	19.5	ug/L	97	(85-115)		
DUP1_201412120269	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Bromochloroacetic acid	8.5		9.28	ug/L		(0-20)	20	9.0
LCS3	Bromochloroacetic acid		8.0	7.63	ug/L	95	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Bromochloroacetic acid		1.0	0.956	ug/L	96	(50-150)		
MS1_201412120253	Bromochloroacetic acid	ND	20	20.0	ug/L	100	(84-123)		
MS2_201412110862	Bromochloroacetic acid	8.7	32	41.7	ug/L	103	(84-123)		
CCCH	Dibromoacetic acid		32	30.2	ug/L	95	(85-115)		
CCCM	Dibromoacetic acid		20	19.4	ug/L	97	(85-115)		
DUP1_201412120269	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dibromoacetic acid	14		15.0	ug/L		(0-20)	20	10
LCS3	Dibromoacetic acid		8.0	7.87	ug/L	98	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.939	ug/L	94	(50-150)		
MS1_201412120253	Dibromoacetic acid	ND	20	19.8	ug/L	99	(84-122)		
MS2_201412110862	Dibromoacetic acid	14	32	44.2	ug/L	94	(84-122)		
CCCH	Dichloroacetic acid		32	30.8	ug/L	96	(85-115)		
CCCM	Dichloroacetic acid		20	19.6	ug/L	98	(85-115)		
DUP1_201412120269	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dichloroacetic acid	3.5		3.81	ug/L		(0-20)	20	7.6
LCS3	Dichloroacetic acid		8.0	7.52	ug/L	94	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	0.978	ug/L	98	(50-150)		
MS1_201412120253	Dichloroacetic acid	ND	20	20.3	ug/L	102	(79-123)		
MS2_201412110862	Dichloroacetic acid	3.4	32	36.7	ug/L	104	(79-123)		
CCCH	Monobromoacetic acid		32	30.4	ug/L	95	(85-115)		
CCCM	Monobromoacetic acid		20	18.2	ug/L	91	(85-115)		
DUP1_201412120269	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monobromoacetic acid	1.8		1.78	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	7.09	ug/L	89	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	0.736	ug/L	74	(50-150)		
MS1_201412120253	Monobromoacetic acid	ND	20	21.1	ug/L	105	(81-122)		
MS2_201412110862	Monobromoacetic acid	1.8	32	36.8	ug/L	109	(81-122)		
CCCH	Monochloroacetic acid		32	30.2	ug/L	94	(85-115)		
CCCM	Monochloroacetic acid		20	19.2	ug/L	96	(85-115)		
DUP1_201412120269	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	7.72	ug/L	97	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.94	ug/L	97	(50-150)		
MS1_201412120253	Monochloroacetic acid	ND	20	20.3	ug/L	101	(72-126)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412110862	Monochloroacetic acid	ND	32	29.5	ug/L	92	(72-126)		
CCCH	Trichloroacetic acid		32	31.7	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	19.3	ug/L	97	(85-115)		
DUP1_201412120269	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Trichloroacetic acid	1.5		1.63	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	6.88	ug/L	86	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.839	ug/L	84	(50-150)		
MS1_201412120253	Trichloroacetic acid	ND	20	20.9	ug/L	104	(82-124)		
MS2_201412110862	Trichloroacetic acid	1.6	32	36.1	ug/L	108	(82-124)		

QC Ref# 809954 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 12/18/2014

DUP_201412110759	Total Dissolved Solid (TDS)	890		888	mg/L		(0-20)	20	0.23
DUP_201412130005	Total Dissolved Solid (TDS)	260		256	mg/L		(0-20)	20	1.6
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	718	mg/L	103	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 809963 - ICPMS Metals by EPA 200.8

Analysis Date: 12/17/2014

LCS1	Antimony Total ICAP/MS		50	47.1	ug/L	94	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.2	ug/L	95	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.29	ug/L	129	(50-150)		
MS_201412120389	Antimony Total ICAP/MS	1	50	47.6	ug/L	93	(70-130)		
MS2_201412120392	Antimony Total ICAP/MS	ND	50	49.4	ug/L	98	(70-130)		
MSD_201412120389	Antimony Total ICAP/MS	1	50	49.0	ug/L	96	(70-130)	20	2.9
MSD2_201412120392	Antimony Total ICAP/MS	ND	50	49.6	ug/L	98	(70-130)	20	0.40
LCS1	Arsenic Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	2.1
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201412120389	Arsenic Total ICAP/MS	5.8	20	25.4	ug/L	98	(70-130)		
MS2_201412120392	Arsenic Total ICAP/MS	1.5	20	21.4	ug/L	100	(70-130)		
MSD_201412120389	Arsenic Total ICAP/MS	5.8	20	25.5	ug/L	98	(70-130)	20	0.39
MSD2_201412120392	Arsenic Total ICAP/MS	1.5	20	21.7	ug/L	101	(70-130)	20	1.4
LCS1	Barium Total ICAP/MS		100	96.4	ug/L	96	(85-115)		
LCS2	Barium Total ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.6
MBLK	Barium Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Barium Total ICAP/MS		2.0	2.41	ug/L	120	(50-150)		
MS_201412120389	Barium Total ICAP/MS	33	100	127	ug/L	95	(70-130)		
MS2_201412120392	Barium Total ICAP/MS	37	100	132	ug/L	95	(70-130)		
MSD_201412120389	Barium Total ICAP/MS	33	100	129	ug/L	96	(70-130)	20	1.6
MSD2_201412120392	Barium Total ICAP/MS	37	100	133	ug/L	96	(70-130)	20	0.76
LCS1	Beryllium Total ICAP/MS		5.0	4.83	ug/L	97	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.59	ug/L	92	(85-115)	20	5.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201412120389	Beryllium Total ICAP/MS	ND	5.0	4.47	ug/L	89	(70-130)		
MS2_201412120392	Beryllium Total ICAP/MS	ND	5.0	4.56	ug/L	91	(70-130)		
MSD_201412120389	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)	20	6.1
MSD2_201412120392	Beryllium Total ICAP/MS	ND	5.0	4.52	ug/L	91	(70-130)	20	0.88
LCS1	Cadmium Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.604	ug/L	121	(50-150)		
MS_201412120389	Cadmium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)		
MS2_201412120392	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MSD_201412120389	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201412120392	Cadmium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)	20	0.52
LCS1	Chromium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.2	ug/L	98	(85-115)	20	1.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MS_201412120389	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201412120392	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201412120389	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	4.8
MSD2_201412120392	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	96.6	ug/L	97	(85-115)	20	1.3
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.56	ug/L	128	(50-150)		
MS_201412120389	Cobalt Total ICAP/MS	ND	100	97.2	ug/L	97	(70-130)		
MS2_201412120392	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201412120389	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.8
MSD2_201412120392	Cobalt Total ICAP/MS	ND	100	100	ug/L	99	(70-130)	20	1
LCS1	Copper Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	96.6	ug/L	97	(85-115)	20	1.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.60	ug/L	130	(50-150)		
MS_201412120389	Copper Total ICAP/MS	7.4	100	99.6	ug/L	92	(70-130)		
MS2_201412120392	Copper Total ICAP/MS	3.4	100	96.2	ug/L	93	(70-130)		
MSD_201412120389	Copper Total ICAP/MS	7.4	100	102	ug/L	94	(70-130)	20	2.4
MSD2_201412120392	Copper Total ICAP/MS	3.4	100	96.4	ug/L	93	(70-130)	20	0.10
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.617	ug/L	123	(50-150)		
MS_201412120389	Lead Total ICAP/MS	ND	20	20.2	ug/L	100	(70-130)		
MS2_201412120392	Lead Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)		
MSD_201412120389	Lead Total ICAP/MS	ND	20	20.5	ug/L	101	(70-130)	20	1.5
MSD2_201412120392	Lead Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.63	ug/L	132	(50-150)		
MS_201412120389	Molybdenum Total ICAP/MS	17	100	119	ug/L	102	(70-130)		
MS2_201412120392	Molybdenum Total ICAP/MS	7	100	111	ug/L	104	(70-130)		
MSD_201412120389	Molybdenum Total ICAP/MS	17	100	122	ug/L	105	(70-130)	20	2.5
MSD2_201412120392	Molybdenum Total ICAP/MS	7	100	111	ug/L	104	(70-130)	20	0.0
LCS1	Nickel Total ICAP/MS		50	49.0	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	1.2
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.22	ug/L	104	(50-150)		
MS_201412120389	Nickel Total ICAP/MS	ND	50	52.2	ug/L	96	(70-130)		
MS2_201412120392	Nickel Total ICAP/MS	6	50	54.4	ug/L	97	(70-130)		
MSD_201412120389	Nickel Total ICAP/MS	ND	50	53.0	ug/L	97	(70-130)	20	1.5
MSD2_201412120392	Nickel Total ICAP/MS	6	50	53.9	ug/L	96	(70-130)	20	0.92
LCS1	Selenium Total ICAP/MS		20	18.5	ug/L	93	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	3.7
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201412120389	Selenium Total ICAP/MS	ND	20	19.7	ug/L	93	(70-130)		
MS2_201412120392	Selenium Total ICAP/MS	ND	20	22.3	ug/L	99	(70-130)		
MSD_201412120389	Selenium Total ICAP/MS	ND	20	20.0	ug/L	94	(70-130)	20	1.5
MSD2_201412120392	Selenium Total ICAP/MS	ND	20	22.4	ug/L	99	(70-130)	20	0.45

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Silver Total ICAP/MS		50	49.2	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.2	ug/L	96	(85-115)	20	2.3
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MS_201412120389	Silver Total ICAP/MS	ND	50	45.0	ug/L	90	(70-130)		
MS2_201412120392	Silver Total ICAP/MS	ND	50	45.1	ug/L	90	(70-130)		
MSD_201412120389	Silver Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)	20	1.1
MSD2_201412120392	Silver Total ICAP/MS	ND	50	45.4	ug/L	91	(70-130)	20	0.66
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201412120389	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201412120392	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201412120389	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.5
MSD2_201412120392	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	0.0
LCS1	Vanadium Total ICAP/MS		100	99.1	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	97.3	ug/L	97	(85-115)	20	1.8
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.54	ug/L	118	(50-150)		
MS_201412120389	Vanadium Total ICAP/MS	5.6	100	110	ug/L	104	(70-130)		
MS2_201412120392	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)		
MSD_201412120389	Vanadium Total ICAP/MS	5.6	100	113	ug/L	107	(70-130)	20	2.7
MSD2_201412120392	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	100	ug/L	100	(85-115)	20	3.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	27.7	ug/L	139	(50-150)		
MS_201412120389	Zinc Total ICAP/MS	ND	100	106	ug/L	94	(70-130)		
MS2_201412120392	Zinc Total ICAP/MS	33	100	127	ug/L	94	(70-130)		
MSD_201412120389	Zinc Total ICAP/MS	ND	100	107	ug/L	95	(70-130)	20	0.94
MSD2_201412120392	Zinc Total ICAP/MS	33	100	128	ug/L	95	(70-130)	20	0.78

QC Ref# 809995 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 12/18/2014

LCS1	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.14	mg/L	103	(90-110)	20	0.72
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.248	mg/L	124	(50-150)		
MS_201412050338	Kjeldahl Nitrogen	ND	4.0	4.06	mg/L	97	(90-110)		
MS_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.40	mg/L	102	(90-110)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412050338	Kjeldahl Nitrogen	ND	4.0	4.27	mg/L	102	(90-110)	10	5.0
MSD_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.32	mg/L	100	(90-110)	10	1.8
QC Ref# 810089 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 12/18/2014			
LCS1	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	101	mg/L	101	(90-110)	20	1.5
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.88	mg/L	94	(50-150)		
MS_201412160217	Alkalinity in CaCO3 units	180	100	276	mg/L	98	(80-120)		
MS_201412160218	Alkalinity in CaCO3 units	170	100	223	mg/L	<u>53</u>	(80-120)		
MSD_201412160217	Alkalinity in CaCO3 units	180	100	276	mg/L	98	(80-120)	20	0.0
MSD_201412160218	Alkalinity in CaCO3 units	170	100	220	mg/L	<u>51</u>	(80-120)	20	1.4
QC Ref# 810490 - ICPMS Metals by EPA 200.8						Analysis Date: 12/18/2014			
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	96.7	ug/L	97	(85-115)	20	1.2
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.765	ug/L	77	(50-150)		
MS_201412190466	Chromium Total ICAP/MS	ND	100	98.4	ug/L	98	(70-130)		
MSD_201412190466	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.6
LCS1	Silver Total ICAP/MS		50	48.6	ug/L	97	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	2.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.409	ug/L	82	(50-150)		
MS_201412190466	Silver Total ICAP/MS	ND	50	44.9	ug/L	90	(70-130)		
MSD_201412190466	Silver Total ICAP/MS	ND	50	45.1	ug/L	90	(70-130)	20	0.44
QC Ref# 810900 - ICPMS Metals by EPA 200.8						Analysis Date: 12/18/2014			
LCS1	Antimony dissolved ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201412090419	Antimony dissolved ICAP/MS		50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony dissolved ICAP/MS		50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony dissolved ICAP/MS		50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony dissolved ICAP/MS		50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Antimony Total ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090419	Antimony Total ICAP/MS	ND	50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony Total ICAP/MS	ND	50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony Total ICAP/MS	ND	50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony Total ICAP/MS	ND	50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic dissolved ICAP/MS		20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Barium dissolved ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium dissolved ICAP/MS		100	157	ug/L	157	(70-130)		
MS2_201412090283	Barium dissolved ICAP/MS		100	173	ug/L	173	(70-130)		
MSD_201412090419	Barium dissolved ICAP/MS		100	155	ug/L	155	(70-130)	20	1.3
MSD2_201412090283	Barium dissolved ICAP/MS		100	176	ug/L	176	(70-130)	20	1.7
LCS1	Barium Total ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium Total ICAP/MS	59	100	157	ug/L	157	(70-130)		
MS2_201412090283	Barium Total ICAP/MS	63	100	173	ug/L	173	(70-130)		
MSD_201412090419	Barium Total ICAP/MS	59	100	155	ug/L	155	(70-130)	20	1.3
MSD2_201412090283	Barium Total ICAP/MS	63	100	176	ug/L	176	(70-130)	20	1.7
LCS1	Beryllium dissolved ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium dissolved ICAP/MS		5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium dissolved ICAP/MS		5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Cadmium dissolved ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium dissolved ICAP/MS		20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium dissolved ICAP/MS		20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Cadmium Total ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Chromium dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium dissolved ICAP/MS		100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium dissolved ICAP/MS		100	124	ug/L	124	(70-130)	20	1.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chromium Total ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium Total ICAP/MS	21	100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium Total ICAP/MS	21	100	124	ug/L	124	(70-130)	20	1.6
LCS1	Cobalt dissolved ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt dissolved ICAP/MS		100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)		
MSD_201412090419	Cobalt dissolved ICAP/MS		100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	3.3
LCS1	Cobalt Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)		
MSD_201412090419	Cobalt Total ICAP/MS	ND	100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	3.3
LCS1	Copper dissolved ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper dissolved ICAP/MS		100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper dissolved ICAP/MS		100	98.2	ug/L	98	(70-130)		
MSD_201412090419	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper dissolved ICAP/MS		100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Copper Total ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper Total ICAP/MS	3.1	100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper Total ICAP/MS	4.9	100	98.2	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412090419	Copper Total ICAP/MS	3.1	100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper Total ICAP/MS	4.9	100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Lead dissolved ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead dissolved ICAP/MS		20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Molybdenum dissolved ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	19.5	ug/L	<u>20</u>	(85-115)	20	<u>130</u>
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412090419	Molybdenum dissolved ICAP/MS		100	97.4	ug/L	97	(70-130)		
MS2_201412090283	Molybdenum dissolved ICAP/MS		100	98.7	ug/L	99	(70-130)		
MSD_201412090419	Molybdenum dissolved ICAP/MS		100	96.7	ug/L	97	(70-130)	20	0.72
MSD2_201412090283	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	2.3
LCS1	Molybdenum Total ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	94.4	ug/L	94	(85-115)	20	1.7
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412090419	Molybdenum Total ICAP/MS	5.3	100	97.4	ug/L	92	(70-130)		
MS2_201412090283	Molybdenum Total ICAP/MS	2.5	100	98.7	ug/L	96	(70-130)		
MSD_201412090419	Molybdenum Total ICAP/MS	5.3	100	96.7	ug/L	91	(70-130)	20	0.72
MSD2_201412090283	Molybdenum Total ICAP/MS	2.5	100	101	ug/L	98	(70-130)	20	2.3
LCS1	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.83	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090419	Nickel dissolved ICAP/MS		50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel dissolved ICAP/MS		50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel dissolved ICAP/MS		50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel dissolved ICAP/MS		50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201412090419	Nickel Total ICAP/MS	ND	50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel Total ICAP/MS	ND	50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel Total ICAP/MS	ND	50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Selenium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MRL_CHK	Selenium dissolved ICAP/MS		5.0	2.85	ug/L	57	(50-150)		
MS_201412090419	Selenium dissolved ICAP/MS		20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium dissolved ICAP/MS		20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium dissolved ICAP/MS		20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium dissolved ICAP/MS		20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Selenium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.38	ug/L	108	(50-150)		
MS_201412090419	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium dissolved ICAP/MS		20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium dissolved ICAP/MS		20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium dissolved ICAP/MS		20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Thallium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Vanadium Dissolved ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Dissolved ICAP/MS		100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Dissolved ICAP/MS		100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Dissolved ICAP/MS		100	111	ug/L	111	(70-130)	20	0.91
LCS1	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Total ICAP/MS	5.0	100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Total ICAP/MS	5.9	100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Total ICAP/MS	5.0	100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Total ICAP/MS	5.9	100	111	ug/L	111	(70-130)	20	0.91
LCS1	Zinc dissolved ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc dissolved ICAP/MS		100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc dissolved ICAP/MS		100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	2.0
LCS1	Zinc Total ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 810929 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 12/22/2014			
LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.517	mg/L	103	(90-110)	20	1.1
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0534	mg/L	107	(53-118)		
MS_201412230461	Ammonia Nitrogen	ND	0.5	0.546	mg/L	108	(90-110)		
MS2_201412120185	Ammonia Nitrogen	ND	0.5	0.470	mg/L	93	(90-110)		
MSD_201412230461	Ammonia Nitrogen	ND	0.5	0.529	mg/L	105	(90-110)	20	3.2
MSD2_201412120185	Ammonia Nitrogen	ND	0.5	0.457	mg/L	91	(90-110)	20	2.8
QC Ref# 810985 - Total Organic Halides by SW9020/SM5320						Analysis Date: 12/22/2014			
LCS1	Total Organic Halides Rep 1		50	48.5	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	204	ug/L	102	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRLHI	Total Organic Halides Rep 1			7.51	ug/L	0			
MS_201412090527	Total Organic Halides Rep 1	27	50	84.9	ug/L	<u>117</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 1	27	50	54.1	ug/L	<u>55</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.04	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.9	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	196	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRLHI	Total Organic Halides Rep 2			7.37	ug/L	0			
MS_201412090527	Total Organic Halides Rep 2	25	50	84.9	ug/L	<u>119</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 2	25	50	54.1	ug/L	<u>58</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		
QC Ref# 811253 - ICPMS Metals by EPA 200.8						Analysis Date: 12/29/2014			
LCS1	Silver dissolved ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.485	ug/L	97	(50-150)		
MS_201412230354	Silver dissolved ICAP/MS	ND	50	40.4	ug/L	81	(70-130)		
MS2_201412230370	Silver dissolved ICAP/MS	ND	50	18.2	ug/L	<u>36</u>	(70-130)		
MSD_201412230354	Silver dissolved ICAP/MS	ND	50	17.5	ug/L	<u>35</u>	(70-130)	20	<u>79</u>
MSD2_201412230370	Silver dissolved ICAP/MS	ND	50	17.4	ug/L	<u>35</u>	(70-130)	20	4.5
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MRL_CHK	Silver Total ICAP/MS		0.5	0.485	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

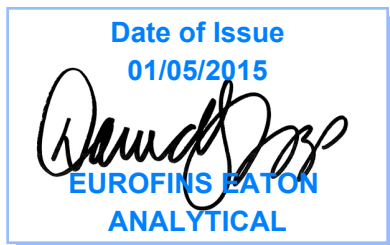
750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 512467
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 512467
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **December 16, 2014 at 1109**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date																																				
201412160194	East Pond San	12/15/2014 1135																																				
	<table border="1"> <tr> <td>@ICPMS</td> <td>@ICPMS</td> <td>@HAA6</td> </tr> <tr> <td>@QUANT2000</td> <td>@THM524</td> <td>@VOAPP</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Ammonia Nitrogen</td> <td>Bicarb.Alkalinity as HCO3,calc</td> </tr> <tr> <td>Biochemical Oxygen Demand,Totl</td> <td>Calcium Total ICAP</td> <td>Chemical Oxygen Demand (COD)</td> </tr> <tr> <td>Chloride</td> <td>Dissolved Oxygen</td> <td>Field pH</td> </tr> <tr> <td>Field Specific Conductance</td> <td>Free Chlorine Residual</td> <td>Freight - RUSH</td> </tr> <tr> <td>Magnesium Total ICAP</td> <td>Nitrate as Nitrogen by IC</td> <td>Nitrite Nitrogen by IC</td> </tr> <tr> <td>Orthophosphate as P (OPO4)</td> <td>PH (H3=past HT not compliant)</td> <td>RUSH</td> </tr> <tr> <td>Sodium Total ICAP</td> <td>Specific Conductance</td> <td>Sulfate</td> </tr> <tr> <td>Surfactants</td> <td>Total Chlorine Residual</td> <td>Total Dissolved Solid (TDS)</td> </tr> <tr> <td>Total Kjeldahl Nitrogen</td> <td>Total Nitrogen-Calc</td> <td>Total Organic Halogen</td> </tr> <tr> <td>Total phosphorus as P</td> <td>Total Suspended Solids (TSS)</td> <td></td> </tr> </table>	@ICPMS	@ICPMS	@HAA6	@QUANT2000	@THM524	@VOAPP	Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)	Chloride	Dissolved Oxygen	Field pH	Field Specific Conductance	Free Chlorine Residual	Freight - RUSH	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	RUSH	Sodium Total ICAP	Specific Conductance	Sulfate	Surfactants	Total Chlorine Residual	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc	Total Organic Halogen	Total phosphorus as P	Total Suspended Solids (TSS)		
@ICPMS	@ICPMS	@HAA6																																				
@QUANT2000	@THM524	@VOAPP																																				
Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc																																				
Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)																																				
Chloride	Dissolved Oxygen	Field pH																																				
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Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC																																				
Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	RUSH																																				
Sodium Total ICAP	Specific Conductance	Sulfate																																				
Surfactants	Total Chlorine Residual	Total Dissolved Solid (TDS)																																				
Total Kjeldahl Nitrogen	Total Nitrogen-Calc	Total Organic Halogen																																				
Total phosphorus as P	Total Suspended Solids (TSS)																																					
201412160211	Travel Blank	12/15/2014 1135																																				
	@VOAPP TB																																					

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @HAA6 -- Haloacetic Acids
- @QUANT2000 -- Quantitray Coliforms
- @THM524 -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624



Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)

CHAIN OF CUSTODY RECORD

512467

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ **SAMPLES CHECKED AGAINST COC BY:** VF

SAMPLES LOGGED IN BY: VF **SAMPLES REC'D DAY OF COLLECTION?** (check for yes)

SAMPLE TEMP RECEIVED AT: _____ °C (Compliance: 4 ± 2 °C)

Colton / No. California / Arizona
 Monrovia 3.5 - 0.3 = 3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:		PROJECT CODE:	COMPLIANCE SAMPLES	NON-COMPLIANCE SAMPLES	(check for yes)		
EG Roxane LLC		CGR Olancho	<input type="checkbox"/>	<input type="checkbox"/>	(check for yes)		
EEA CLIENT CODE:		SAMPLE GROUP:	- Requires state forms Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)				
COC ID:		Wastewater	SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes) OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)				
TAT requested: rush by adv notice only		STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___					
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
12/15	1135	East pond san	CRYSTAL ROX	WW 7.47	236	US/CM	Bottle order for test
							KEE 12/16/14 115

Victor Plascencia

DEC 16 2014 1109

Victor Plascencia
Eurofins Eaton Analytical

* **MATRIX TYPES:** RSW = Raw Surface Water RGW = Raw Ground Water CFW = Chlor(am)inated Finished Water FW = Other Finished Water SEAW = Sea Water WW = Waste Water BW = Bottled Water SW = Storm Water SO = Soil SL = Sludge

SIGNATURE **PRINT NAME** **COMPANY/TITLE** **DATE** **TIME**

SAMPLED BY: *George Castaneda* George Castaneda CG Roxane LLC 12/15/14 1700

RELINQUISHED BY: _____

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: _____



Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Crystal Geyser Roxane
David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 98713
Created By: DST
Deliver By: 10/10/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANGHA Bottle Orders
Group Name: Wastewater
PO#/JOB#:

Ship Sample Kits to
Crystal Geyser Roxane
1210 South Highway 395
Olancha, CA 93549

Attn: Manuel Luna - Shipping
Phone: 760-764-1822
Fax: 760-764-2861

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if any	UN DOT #
10	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
10	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
10	@ICPMS, Surfactants	1 500ml poly no preservative	
10	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
10	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
10	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
10	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Alkalinity in CaCO3 units, PH (HS=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
10	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
10	Biochemical Oxygen Demand Totl	1 1L poly no preservative	
10	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
10	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
10	Dissolved Oxygen	1 BOD bottle	
10	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
10	Orthophosphate as P	1 125ml poly OPO4_no preservative	
10	Total Dissolved Solid (TDS), Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	
10	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments
SHIPPING: Please deliver ASAP, but no later than 10/10/14 - 10 separate coolers.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395
Olancho, CA 93549

Origin ID: IYKA



Ship Date: 15DEC14
ActWgt: 25.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
David
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

1 of 2

TUE - 16 DEC AA
STANDARD OVERNIGHT

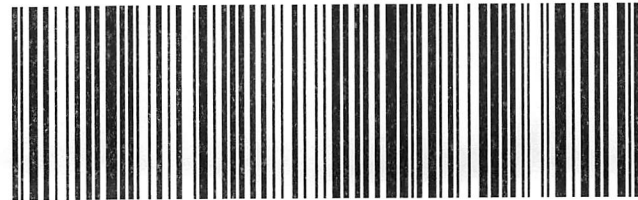
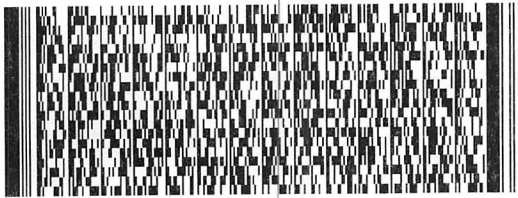
TRK# 7722 3948 7680

0201

MASTER

92 WHPA

91016
CA-US
BUR



522G2JDC758AC9

After printing this label:

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 512467

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1109

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201412160194	<u>East Pond San</u>			
12/17/2014 13:02	24 Hour Total Coliform Confrm (Large Wells)		49		PW	1
12/17/2014 13:02	24 Hour Total Coliform Confrm (Small Wells)		48		PW	1
12/18/2014 5:22	2-Butanone (MEK)		5.6		ug/L	5
12/18/2014 16:29	Alkalinity in CaCO3 units		80		mg/L	2
12/23/2014 16:23	Arsenic dissolved ICAP/MS		12		ug/L	1
12/22/2014 18:00	Arsenic Total ICAP/MS		17	10	ug/L	1
12/23/2014 16:23	Barium dissolved ICAP/MS		9.3		ug/L	2
12/22/2014 18:00	Barium Total ICAP/MS		10	2000	ug/L	2
12/19/2014 10:19	Bicarb.Alkalinity as HCO3calc		98		mg/L	2
12/17/2014 09:19	Biochemical Oxygen Demand, Totl		12		mg/L	3
12/19/2014 18:51	Calcium Total ICAP		20		mg/L	20
12/17/2014 11:36	Chemical Oxygen Demand (COD)		57		mg/L	5
12/16/2014 16:02	Chloride		4.9	250	mg/L	1
12/22/2014 18:00	Chromium Total ICAP/MS		2.0	100	ug/L	1
12/23/2014 16:23	Copper dissolved ICAP/MS		14		ug/L	2
12/22/2014 18:00	Copper Total ICAP/MS		16	1300	ug/L	2
12/16/2014 11:32	Dissolved Oxygen		9.0		mg/L	0.5
12/15/2014 11:35	Field pH		7.47		Units	0.1
12/15/2014 11:35	Field Specific Conductance		236		umho/cm	
12/18/2014 11:34	Kjeldahl Nitrogen		1.1		mg/L	0.2
12/19/2014 18:51	Magnesium Total ICAP		1.9		mg/L	1
12/23/2014 16:23	Molybdenum dissolved ICAP/MS		3.7		ug/L	2
12/23/2014 17:43	Molybdenum Total ICAP/MS		5.2		ug/L	2
12/16/2014 16:02	Nitrate as Nitrogen by IC		0.58	10	mg/L	0.1
12/16/2014 16:28	Orthophosphate as P		1.2		mg/L	0.05
12/17/2014 18:32	PH (H3=past HT not compliant)		7.4		Units	0.1
12/19/2014 18:51	Sodium Total ICAP		30		mg/L	20
12/17/2014 18:32	Specific Conductance, 25 C		250		umho/cm	2
12/16/2014 16:02	Sulfate		34	250	mg/L	0.5
12/17/2014 13:02	Total Coliform Bacteria		>2419.6		MPN/100 mL	1
12/18/2014 10:09	Total Dissolved Solids (TDS)		180	500	mg/L	10
12/18/2014 14:52	Total Nitrogen-Calc		1.7		mg/L	0.2
12/22/2014 21:45	Total Organic Halides Average		12		ug/L	10
12/22/2014 21:45	Total Organic Halides Rep 1		12		ug/L	10
12/22/2014 21:45	Total Organic Halides Rep 2		11		ug/L	10
12/19/2014 17:40	Total phosphorus as P		1.9		mg/L	0.02

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Hits
Report: 512467

Crystal Geysers Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/16/2014 1109

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
12/23/2014 16:23	Zinc dissolved ICAP/MS		33		ug/L	20
12/22/2014 18:00	Zinc Total ICAP/MS		41	5000	ug/L	20

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Laboratory Data
 Report: 512467

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
East Pond San (201412160194)						Sampled on 12/15/2014 1135		
2510B/ SW9050 - Field Specific Conductance								
	12/15/2014	11:35 809685	(2510B/ SW9050)	Field Specific Conductance	236	umho/cm		1
EPA 150.1 - Field pH								
	12/15/2014	11:35 809684	(EPA 150.1)	Field pH	7.47	Units	0.1	1
EPA 200.8 - ICPMS Metals								
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Arsenic dissolved ICAP/MS	12	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Arsenic Total ICAP/MS	17	ug/L	1	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Barium dissolved ICAP/MS	9.3	ug/L	2	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Barium Total ICAP/MS	10	ug/L	2	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Chromium Total ICAP/MS	2.0	ug/L	1	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Copper dissolved ICAP/MS	14	ug/L	2	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Copper Total ICAP/MS	16	ug/L	2	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Molybdenum dissolved ICAP/MS	3.7	ug/L	2	1
12/15/2014	12/23/2014	17:43 811010	(EPA 200.8)	Molybdenum Total ICAP/MS	5.2	ug/L	2	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
12/15/2014	12/29/2014	15:49 811253	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
12/15/2014	12/23/2014	16:23 810900	(EPA 200.8)	Zinc dissolved ICAP/MS	33	ug/L	20	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/15/2014	12/22/2014	18:00 810768	(EPA 200.8)	Zinc Total ICAP/MS	41	ug/L	20	1
EPA 200.7 - ICP Metals								
12/15/2014	12/19/2014	18:51 810496	(EPA 200.7)	Calcium Total ICAP	20	mg/L	20	20
12/15/2014	12/19/2014	18:51 810496	(EPA 200.7)	Magnesium Total ICAP	1.9	mg/L	1	20
12/15/2014	12/19/2014	18:51 810496	(EPA 200.7)	Sodium Total ICAP	30	mg/L	20	20
SM 9223B - Quantitray Coliforms								
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND (QC)	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND (QC)	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	49 (QC)	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	48 (QC)	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	E. Coli Bacteria	<1 (QC)	MPN/100 mL	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	Total Coliform Bacteria	>2419.6 (QC)	MPN/100 mL	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	E. Coli Bacteria (P/A)	A (QC)			1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	Total Coliform Bacteria (P/A)	P (QC)			1
SW9020/SM5320 - Total Organic Halides								
12/22/2014	12/22/2014	21:45 810985	(SW9020/SM5320)	Total Organic Halides Average	12	ug/L	10	1
12/22/2014	12/22/2014	21:45 810985	(SW9020/SM5320)	Total Organic Halides Rep 1	12	ug/L	10	1
12/22/2014	12/22/2014	21:45 810985	(SW9020/SM5320)	Total Organic Halides Rep 2	11	ug/L	10	1
EPA 353-351 - Total Nitrogen-Calc								
	12/18/2014	14:52	(EPA 353-351)	Total Nitrogen-Calc	1.7	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	12/19/2014	10:19	(SM2330B)	Bicarb.Alkalinity as HCO3calc	98	mg/L	2	1
SM 6251B - Haloacetic Acids								
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	1,2,3-Trichloropropane	103	%		1
12/17/2014	12/18/2014	00:48 809947	(SM 6251B)	2,3-Dibromopropionic acid	109	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	12/16/2014	16:02 809659	(EPA 300.0)	Nitrate as Nitrogen by IC	0.58	mg/L	0.1	1
	12/16/2014	16:02 809659	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1

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Laboratory Data
 Report: 512467

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	12/16/2014	16:02 809663	(EPA 300.0)	Chloride	4.9	mg/L	1	1
	12/16/2014	16:02 809663	(EPA 300.0)	Sulfate	34	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	12/19/2014	17:40 809641	(SM4500-PE/EPA 365.1)	Total phosphorus as P	1.9	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	12/18/2014	11:34 809995	(EPA 351.2)	Kjeldahl Nitrogen	1.1	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	12/22/2014	14:14 810929	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	1,2-Dichloroethane-d4	107	%		1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	4-Bromofluorobenzene	97	%		1
12/17/2014	12/18/2014	5:22 810038	(EPA 524.2)	Toluene-d8	95	%		1
EPA 624 - Volatile Organics by EPA 624								
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	2-Butanone (MEK)	5.6	ug/L	5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Acetone	ND	ug/L	10	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Bromoform	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

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Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Trichloroethylene (TCE)	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	1,2-Dichloroethane-d4	107	%		1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	4-Bromofluorobenzene	97	%		1
12/17/2014	12/18/2014	5:22 810034	(EPA 624)	Toluene-d8	95	%		1

SM 2320B - Alkalinity in CaCO3 units

12/18/2014	16:29 810089	(SM 2320B)	Alkalinity in CaCO3 units	80	mg/L	2	1
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E160.1/SM2540C - Total Dissolved Solids (TDS)

12/17/2014	12/18/2014	10:09 809954	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	180	mg/L	10	1
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SM4500 - Dissolved Oxygen

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	12/16/2014	11:32 809649	(SM4500)	Dissolved Oxygen	9.0	mg/L	0.5	1
				SM4500-HB - PH (H3=past HT not compliant)				
	12/17/2014	18:32 809869	(SM4500-HB)	PH (H3=past HT not compliant)	7.4	Units	0.1	1
				SM 2540D - Total Suspended Solids (TSS)				
	12/17/2014	18:10 809921	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
				SM 5540C/EPA 425.1 - Surfactants				
	12/16/2014	13:02 809519	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
				EPA 410.4 - Chemical Oxygen Demand (COD)				
	12/17/2014	11:36 809774	(EPA 410.4)	Chemical Oxygen Demand (COD)	57	mg/L	5	1
				SM2510B - Specific Conductance				
	12/17/2014	18:32 809871	(SM2510B)	Specific Conductance, 25 C	250	umho/cm	2	1
				SM5210B 405.1 - Biochemical Oxygen Demand, Totl				
	12/17/2014	09:19 809640	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	12 (L2)	mg/L	3	1
				4500P-E/365.1 - Orthophosphate as P (OPO4)				
	12/16/2014	16:28 809520	(4500P-E/365.1)	Orthophosphate as P	1.2	mg/L	0.05	5
				SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)				
	12/16/2014	15:00 809851	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
				SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)				
	12/16/2014	15:00 809825	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

Travel Blank (201412160211)

Sampled on 12/15/2014 1135

EPA 624 - Volatile Organics by EPA 624

12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	Acetone	ND	ug/L	10	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	6:29 810034	(EPA 624)	Benzene	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
 Report: 512467

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1109

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Bromoform	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Trichloroethylene (TCE)	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	1,2-Dichloroethane-d4	103	%		1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	4-Bromofluorobenzene	99	%		1
12/17/2014	12/18/2014	6:29	810034	(EPA 624)	Toluene-d8	92	%		1

Rounding on totals after summation.
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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Flags Legend:

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

L2 - The associated blank spike recovery was below laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

QC - Sample received with signs of damage or contamination (SDC).

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Crystal Geysler Roxane

QC Ref # 809519 - Surfactants		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: MIA8
QC Ref # 809520 - Orthophosphate as P (OPO4)		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: MIA8
QC Ref # 809640 - Biochemical Oxygen Demand,Totl		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: MXT
QC Ref # 809641 - Total phosphorus as P (T-P)		Analysis Date: 12/19/2014
201412160194	East Pond San	Analyzed by: KXS
QC Ref # 809649 - Dissolved Oxygen		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: MXT
QC Ref # 809659 - Nitrate, Nitrite by EPA 300.0		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: CYP
QC Ref # 809663 - Chloride, Sulfate by EPA 300.0		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: CYP
QC Ref # 809684 - Field pH		Analysis Date: 12/15/2014
201412160194	East Pond San	Analyzed by: ADT
QC Ref # 809685 - Field Specific Conductance		Analysis Date: 12/15/2014
201412160194	East Pond San	Analyzed by: ADT
QC Ref # 809774 - Chemical Oxygen Demand (COD)		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: 6Q4
QC Ref # 809815 - Quantitray Coliforms		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: MHP3
QC Ref # 809825 - Free Chlorine Residual (H3=past HT not complian		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: NJR
QC Ref # 809851 - Total Chlorine Residual (H3=past HT not complian		Analysis Date: 12/16/2014
201412160194	East Pond San	Analyzed by: NJR
QC Ref # 809869 - PH (H3=past HT not compliant)		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: 6Q4
QC Ref # 809871 - Specific Conductance		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: 6Q4
QC Ref # 809921 - Total Suspended Solids (TSS)		Analysis Date: 12/17/2014
201412160194	East Pond San	Analyzed by: JRF
QC Ref # 809947 - Haloacetic Acids		Analysis Date: 12/18/2014
201412160194	East Pond San	Analyzed by: A4H
QC Ref # 809954 - Total Dissolved Solids (TDS)		Analysis Date: 12/18/2014
201412160194	East Pond San	Analyzed by: JRF

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Crystal Geysler Roxane

QC Ref # 809995 - Total Kjeldahl Nitrogen

201412160194 East Pond San

Analysis Date: 12/18/2014

Analyzed by: KXS

QC Ref # 810034 - Volatile Organics by EPA 624

201412160194 East Pond San
201412160211 Travel Blank

Analysis Date: 12/18/2014

Analyzed by: KAM
Analyzed by: KAM

QC Ref # 810038 - Volatile Organics by GCMS

201412160194 East Pond San

Analysis Date: 12/18/2014

Analyzed by: KAM

QC Ref # 810089 - Alkalinity in CaCO3 units

201412160194 East Pond San

Analysis Date: 12/18/2014

Analyzed by: 6Q4

QC Ref # 810496 - ICP Metals

201412160194 East Pond San

Analysis Date: 12/19/2014

Analyzed by: NINA

QC Ref # 810768 - ICPMS Metals

201412160194 East Pond San

Analysis Date: 12/22/2014

Analyzed by: AZS

QC Ref # 810900 - ICPMS Metals

201412160194 East Pond San

Analysis Date: 12/23/2014

Analyzed by: SXX

QC Ref # 810929 - Ammonia Nitrogen

201412160194 East Pond San

Analysis Date: 12/22/2014

Analyzed by: MYH

QC Ref # 810985 - Total Organic Halides

201412160194 East Pond San

Analysis Date: 12/22/2014

Analyzed by: KXS

QC Ref # 811010 - ICPMS Metals

201412160194 East Pond San

Analysis Date: 12/23/2014

Analyzed by: AZS

QC Ref # 811253 - ICPMS Metals

201412160194 East Pond San

Analysis Date: 12/29/2014

Analyzed by: AZS

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 809519 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 12/16/2014			
LCS1	Surfactants		0.2	0.185	mg/L	93	(90-110)		
LCS2	Surfactants		0.2	0.195	mg/L	97	(90-110)	20	5.3
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0392	mg/L	78	(50-150)		
MS_201412160060	Surfactants	ND	0.2	0.229	mg/L	103	(80-120)		
MSD_201412160060	Surfactants	ND	0.2	0.227	mg/L	102	(80-120)	20	0.88
QC Ref# 809520 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 12/16/2014			
LCS1	Orthophosphate as P		0.25	0.256	mg/L	102	(90-110)		
LCS2	Orthophosphate as P		0.25	0.264	mg/L	106	(90-110)	20	3.1
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0140	mg/L	140	(50-150)		
MS_201412160473	Orthophosphate as P	0.37	0.5	0.898	mg/L	106	(90-110)		
MSD_201412160473	Orthophosphate as P	0.37	0.5	0.901	mg/L	107	(90-110)	20	0.33
QC Ref# 809640 - Biochemical Oxygen Demand,Totl by SM5210B 405.1						Analysis Date: 12/17/2014			
DUP1_201412150598	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
DUP2_201412150636	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	152	mg/L	<u>77</u>	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				
QC Ref# 809641 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 12/19/2014			
LCS1	Total phosphorus as P		0.4	0.404	mg/L	101	(90-110)		
LCS2	Total phosphorus as P		0.4	0.391	mg/L	98	(90-110)	20	3.3
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0193	mg/L	97	(50-150)		
MS_201412120253	Total phosphorus as P	1.1	0.4	1.48	mg/L	98	(90-110)		
MSD_201412120253	Total phosphorus as P	1.1	0.4	1.49	mg/L	100	(90-110)	20	0.67
QC Ref# 809649 - Dissolved Oxygen by SM4500						Analysis Date: 12/16/2014			
MBLK	Dissolved Oxygen			<0.5	mg/L				
QC Ref# 809659 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 12/16/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.44	mg/L	98	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.39	mg/L	96	(90-110)	20	2.1
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0456	mg/L	91	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0125	mg/L	100	(50-150)		
MS_201412160038	Nitrate as Nitrogen by IC	ND	1.3	1.29	mg/L	100	(80-120)		
MS_201412160213	Nitrate as Nitrogen by IC	10	1.3	12.7	mg/L	92	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412160038	Nitrate as Nitrogen by IC	ND	1.3	1.29	mg/L	100	(80-120)	20	0.0
MSD_201412160213	Nitrate as Nitrogen by IC	10	1.3	12.7	mg/L	93	(80-120)	20	0.0
LCS1	Nitrite Nitrogen by IC		1.0	0.968	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.969	mg/L	97	(90-110)	20	0.10
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0441	mg/L	88	(50-150)		
MRLLLW	Nitrite Nitrogen by IC		0.013	0.0117	mg/L	94	(50-150)		
MS_201412160038	Nitrite Nitrogen by IC	ND	0.5	0.487	mg/L	97	(80-120)		
MS_201412160213	Nitrite Nitrogen by IC	ND	0.5	0.924	mg/L	92	(80-120)		
MSD_201412160038	Nitrite Nitrogen by IC	ND	0.5	0.482	mg/L	96	(80-120)	20	1.0
MSD_201412160213	Nitrite Nitrogen by IC	ND	0.5	0.940	mg/L	94	(80-120)	20	1.7

QC Ref# 809663 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 12/16/2014

LCS1	Chloride		25	24.9	mg/L	100	(90-110)		
LCS2	Chloride		25	24.4	mg/L	97	(90-110)	20	2.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.394	mg/L	79	(50-150)		
MS_201412160213	Chloride	28	13	53.6	mg/L	100	(80-120)		
MSD_201412160213	Chloride	28	13	53.9	mg/L	102	(80-120)	20	0.56
LCS1	Sulfate		50	51.8	mg/L	104	(90-110)		
LCS2	Sulfate		50	50.8	mg/L	102	(90-110)	20	2.0
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.927	mg/L	93	(50-150)		
MRLLLW	Sulfate		0.25	0.256	mg/L	102	(50-150)		
MS_201412160213	Sulfate	18	25	69.6	mg/L	104	(80-120)		
MSD_201412160213	Sulfate	18	25	70.2	mg/L	105	(80-120)	20	0.86

QC Ref# 809774 - Chemical Oxygen Demand (COD) by EPA 410.4

Analysis Date: 12/17/2014

LCS1	Chemical Oxygen Demand (COD)		50	52.0	mg/L	104	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	52.0	mg/L	104	(90-110)	20	0.0
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	7.00	mg/L	140	(50-150)		
MS_201412160194	Chemical Oxygen Demand (COD)	57	50	106	mg/L	98	(90-110)		
MSD_201412160194	Chemical Oxygen Demand (COD)	57	50	106	mg/L	98	(90-110)	20	0.0

QC Ref# 809825 - Free Chlorine Residual (H3=past HT not compliant) by SM

Analysis Date: 12/16/2014

4500CL-G/HACH

LCS1	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.970	mg/L	97	(85-115)	20	2.1
MBLK	Free Chlorine Residual			<0.1	mg/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 809851 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 12/16/2014			
LCS1	Total Chlorine Residual		1.0	1.01	mg/L	101	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.02	mg/L	102	(85-115)	20	0.99
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 809869 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 12/17/2014			
DUP_201412120269	PH (H3=past HT not compliant)	7.6	0.01	7.59	Units		(0-20)	20	0.40
DUP_201412160216	PH (H3=past HT not compliant)	8.2	0.01	8.18	Units		(0-20)	20	0.37
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 809871 - Specific Conductance by SM2510B						Analysis Date: 12/17/2014			
DUP1_201412120269	Specific Conductance	250	2	248	umho/cm		(0-20)	20	0.12
DUP1_201412160216	Specific Conductance	330	2	328	umho/cm		(0-20)	20	0.15
LCS1	Specific Conductance		1000	1000	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1010	umho/cm	101	(95-105)	20	1
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.70	umho/cm	104	(50-150)		
QC Ref# 809921 - Total Suspended Solids (TSS) by SM 2540D						Analysis Date: 12/17/2014			
DUP_201412110751	Total Suspended Solids (TSS)	90	10	92.0	mg/L		(0-10)	10	2.2
DUP_201412110786	Total Suspended Solids (TSS)	250	10	236	mg/L		(0-10)	10	4.1
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	172	mg/L	98	(71-107)	20	1.2
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 809947 - Haloacetic Acids by SM 6251B						Analysis Date: 12/17/2014			
CCCH	1,2,3-Trichloropropane (I)			98.9	%	99	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			100	%	100	(80-130)		
DUP1_201412120269	1,2,3-Trichloropropane (I)			100	%	101	(80-120)		
DUP2_201412110863	1,2,3-Trichloropropane (I)			98.6	%	99	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			99.9	%	100	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS1_201412120253	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS2_201412110862	1,2,3-Trichloropropane (I)			97.7	%	98	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	2,3-Dibromopropionic acid (S)			94.5	%	95	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP1_201412120269	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
DUP2_201412110863	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			98.6	%	99	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			92.8	%	93	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			89.5	%	90	(70-130)		
MS1_201412120253	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
MS2_201412110862	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
CCCH	Bromochloroacetic acid		32	31.0	ug/L	97	(85-115)		
CCCM	Bromochloroacetic acid		20	19.5	ug/L	97	(85-115)		
DUP1_201412120269	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Bromochloroacetic acid	8.5		9.28	ug/L		(0-20)	20	9.0
LCS3	Bromochloroacetic acid		8.0	7.63	ug/L	95	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	0.956	ug/L	96	(50-150)		
MS1_201412120253	Bromochloroacetic acid	ND	20	20.0	ug/L	100	(84-123)		
MS2_201412110862	Bromochloroacetic acid	8.7	32	41.7	ug/L	103	(84-123)		
CCCH	Dibromoacetic acid		32	30.2	ug/L	95	(85-115)		
CCCM	Dibromoacetic acid		20	19.4	ug/L	97	(85-115)		
DUP1_201412120269	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dibromoacetic acid	14		15.0	ug/L		(0-20)	20	10
LCS3	Dibromoacetic acid		8.0	7.87	ug/L	98	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.939	ug/L	94	(50-150)		
MS1_201412120253	Dibromoacetic acid	ND	20	19.8	ug/L	99	(84-122)		
MS2_201412110862	Dibromoacetic acid	14	32	44.2	ug/L	94	(84-122)		
CCCH	Dichloroacetic acid		32	30.8	ug/L	96	(85-115)		
CCCM	Dichloroacetic acid		20	19.6	ug/L	98	(85-115)		
DUP1_201412120269	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dichloroacetic acid	3.5		3.81	ug/L		(0-20)	20	7.6
LCS3	Dichloroacetic acid		8.0	7.52	ug/L	94	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	0.978	ug/L	98	(50-150)		
MS1_201412120253	Dichloroacetic acid	ND	20	20.3	ug/L	102	(79-123)		
MS2_201412110862	Dichloroacetic acid	3.4	32	36.7	ug/L	104	(79-123)		
CCCH	Monobromoacetic acid		32	30.4	ug/L	95	(85-115)		
CCCM	Monobromoacetic acid		20	18.2	ug/L	91	(85-115)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP1_201412120269	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monobromoacetic acid	1.8		1.78	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	7.09	ug/L	89	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	0.736	ug/L	74	(50-150)		
MS1_201412120253	Monobromoacetic acid	ND	20	21.1	ug/L	105	(81-122)		
MS2_201412110862	Monobromoacetic acid	1.8	32	36.8	ug/L	109	(81-122)		
CCCH	Monochloroacetic acid		32	30.2	ug/L	94	(85-115)		
CCCM	Monochloroacetic acid		20	19.2	ug/L	96	(85-115)		
DUP1_201412120269	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	7.72	ug/L	97	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.94	ug/L	97	(50-150)		
MS1_201412120253	Monochloroacetic acid	ND	20	20.3	ug/L	101	(72-126)		
MS2_201412110862	Monochloroacetic acid	ND	32	29.5	ug/L	92	(72-126)		
CCCH	Trichloroacetic acid		32	31.7	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	19.3	ug/L	97	(85-115)		
DUP1_201412120269	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Trichloroacetic acid	1.5		1.63	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	6.88	ug/L	86	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.839	ug/L	84	(50-150)		
MS1_201412120253	Trichloroacetic acid	ND	20	20.9	ug/L	104	(82-124)		
MS2_201412110862	Trichloroacetic acid	1.6	32	36.1	ug/L	108	(82-124)		

QC Ref# 809954 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 12/18/2014

DUP_201412110759	Total Dissolved Solid (TDS)	890		888	mg/L		(0-20)	20	0.23
DUP_201412130005	Total Dissolved Solid (TDS)	260		256	mg/L		(0-20)	20	1.6
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	718	mg/L	103	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 809995 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 12/18/2014

LCS1	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.14	mg/L	103	(90-110)	20	0.72
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.248	mg/L	124	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412050338	Kjeldahl Nitrogen	ND	4.0	4.06	mg/L	97	(90-110)		
MS_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.40	mg/L	102	(90-110)		
MSD_201412050338	Kjeldahl Nitrogen	ND	4.0	4.27	mg/L	102	(90-110)	10	5.0
MSD_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.32	mg/L	100	(90-110)	10	1.8
QC Ref# 810034 - Volatile Organics by EPA 624 by EPA 624						Analysis Date: 12/17/2014			
LCS1	1,1,1-Trichloroethane		20	23.1	ug/L	115	(79-121)		
LCS2	1,1,1-Trichloroethane		20	21.8	ug/L	109	(79-121)	20	5.3
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	1,1,1-Trichloroethane	ND	10	11.1	ug/L	111	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	22.6	ug/L	113	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	20.8	ug/L	104	(77-126)	20	8.3
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412160194	1,1,2,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(79-130)		
LCS1	1,1,2-Trichloroethane		20	22.9	ug/L	114	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.1	ug/L	106	(79-116)	20	8.2
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(76-129)		
LCS1	1,1-Dichloroethane		20	23.2	ug/L	116	(77-129)		
LCS2	1,1-Dichloroethane		20	21.5	ug/L	108	(77-129)	20	7.6
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	1,1-Dichloroethane	ND	10	11.6	ug/L	116	(70-146)		
LCS1	1,1-Dichloroethylene		20	23.9	ug/L	119	(77-139)		
LCS2	1,1-Dichloroethylene		20	22.3	ug/L	111	(77-139)	20	6.9
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	1,1-Dichloroethylene	ND	10	12.3	ug/L	123	(75-134)		
LCS1	1,2-Dichloroethane		20	24.0	ug/L	120	(81-122)		
LCS2	1,2-Dichloroethane		20	21.7	ug/L	108	(81-122)	20	10
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	1,2-Dichloroethane	ND	10	11.4	ug/L	114	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MS_201412160194	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	1,2-Dichloropropane		20	22.9	ug/L	115	(77-118)		
LCS2	1,2-Dichloropropane		20	21.1	ug/L	105	(77-118)	20	8.2
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.580	ug/L	116	(50-150)		
MS_201412160194	1,2-Dichloropropane	ND	10	11.3	ug/L	113	(73-132)		
LCS1	2-Butanone (MEK)		200	171	ug/L	85	(65-122)		
LCS2	2-Butanone (MEK)		200	145	ug/L	73	(65-122)	20	17
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.52	ug/L	110	(50-150)		
MS_201412160194	2-Butanone (MEK)	5.6	100	116	ug/L	111	(59-129)		
LCS1	2-Hexanone		200	182	ug/L	91	(72-128)		
LCS2	2-Hexanone		200	159	ug/L	80	(72-128)	20	14
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.74	ug/L	95	(50-150)		
MS_201412160194	2-Hexanone	ND	100	117	ug/L	117	(71-134)		
LCS1	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.8	%	95	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			99.0	%	99	(70-130)		
MRLW	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MS_201412160194	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	180	ug/L	90	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	158	ug/L	79	(76-130)	20	13
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.24	ug/L	105	(50-150)		
MS_201412160194	4-Methyl-2-Pentanone (MIBK)	ND	100	121	ug/L	121	(75-136)		
LCS1	Acetone		200	181	ug/L	91	(47-117)		
LCS2	Acetone		200	156	ug/L	78	(47-117)	20	15
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.67	ug/L	113	(50-150)		
MS_201412160194	Acetone	ND	100	115	ug/L	115	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	22.2	ug/L	111	(60-156)		
LCS2	Benzene		20	20.6	ug/L	103	(60-156)	20	7.5

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Benzene	ND	10	10.8	ug/L	108	(76-133)		
LCS1	Bromodichloromethane		20	23.9	ug/L	120	(77-113)		
LCS2	Bromodichloromethane		20	22.0	ug/L	110	(77-113)	20	8.3
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412160194	Bromodichloromethane	ND	10	11.0	ug/L	110	(77-130)		
LCS1	Bromoform		20	22.2	ug/L	111	(54-134)		
LCS2	Bromoform		20	19.6	ug/L	98	(54-134)	20	12
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.250	ug/L	50	(50-150)		
MS_201412160194	Bromoform	ND	10	7.59	ug/L	76	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	25.6	ug/L	128	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	24.3	ug/L	121	(67-144)	20	5.2
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	Bromomethane (Methyl Bromide)	ND	10	10.3	ug/L	103	(55-147)		
LCS1	Carbon disulfide		20	15.1	ug/L	75	(63-131)		
LCS2	Carbon disulfide		20	13.9	ug/L	70	(63-131)	20	8.3
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.420	ug/L	84	(50-150)		
MS_201412160194	Carbon disulfide	ND	10	11.5	ug/L	115	(65-155)		
LCS1	Carbon Tetrachloride		20	22.7	ug/L	113	(73-127)		
LCS2	Carbon Tetrachloride		20	21.9	ug/L	110	(73-127)	20	3.6
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.450	ug/L	90	(50-150)		
MS_201412160194	Carbon Tetrachloride	ND	10	11.7	ug/L	117	(71-151)		
LCS1	Chlorobenzene		20	21.9	ug/L	110	(57-166)		
LCS2	Chlorobenzene		20	20.8	ug/L	104	(57-166)	20	4.7
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.420	ug/L	84	(50-150)		
MS_201412160194	Chlorobenzene	ND	10	10.6	ug/L	106	(77-132)		
LCS1	Chlorodibromomethane		20	22.8	ug/L	114	(77-113)		
LCS2	Chlorodibromomethane		20	22.3	ug/L	111	(77-113)	20	2.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.370	ug/L	74	(50-150)		
MS_201412160194	Chlorodibromomethane	ND	10	9.61	ug/L	96	(68-136)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chloroethane		20	22.3	ug/L	112	(70-133)		
LCS2	Chloroethane		20	21.9	ug/L	109	(70-133)	20	1.8
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Chloroethane	ND	10	10.6	ug/L	106	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	22.4	ug/L	112	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	20.5	ug/L	102	(78-117)	20	8.9
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Chloroform (Trichloromethane)	ND	10	11.0	ug/L	110	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	22.9	ug/L	114	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	22.1	ug/L	111	(78-134)	20	3.6
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Chloromethane(Methyl Chloride)	ND	10	11.3	ug/L	113	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	22.2	ug/L	111	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	21.0	ug/L	105	(80-114)	20	5.6
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	24.5	ug/L	122	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	22.5	ug/L	113	(68-123)	20	8.5
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201412160194	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	107	(65-120)		
LCS1	Dichlorodifluoromethane		20	30.8	ug/L	154	(46-165)		
LCS2	Dichlorodifluoromethane		20	29.2	ug/L	146	(46-165)	20	5.3
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412160194	Dichlorodifluoromethane	ND	10	14.6	ug/L	146	(30-169)		
LCS1	Dichloromethane		20	23.0	ug/L	115	(77-121)		
LCS2	Dichloromethane		20	21.8	ug/L	109	(77-121)	20	5.4
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Dichloromethane	ND	10	11.2	ug/L	112	(75-132)		
LCS1	Ethyl benzene		20	23.8	ug/L	119	(79-122)		
LCS2	Ethyl benzene		20	22.4	ug/L	112	(79-122)	20	5.6
MBLK	Ethyl benzene			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	Ethyl benzene	ND	10	11.2	ug/L	112	(68-146)		
LCS1	m,p-Xylenes		40	46.0	ug/L	115	(82-123)		
LCS2	m,p-Xylenes		40	44.1	ug/L	110	(82-123)	20	4.2
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.830	ug/L	83	(50-150)		
MRLW	m,p-Xylenes		0.5	0.390	ug/L	78	(50-150)		
MS_201412160194	m,p-Xylenes	ND	20	22.0	ug/L	110	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	21.9	ug/L	109	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.7	ug/L	104	(76-124)	20	5.6
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.430	ug/L	86	(50-150)		
MS_201412160194	m-Dichlorobenzene (1,3-DCB)	ND	10	10.2	ug/L	102	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	15.1	ug/L	75	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	14.3	ug/L	72	(70-130)	20	5.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412160194	Methyl Tert-butyl ether (MTBE)	ND	10	10.3	ug/L	103	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	21.6	ug/L	108	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.3	ug/L	101	(79-118)	20	6.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.490	ug/L	98	(50-150)		
MS_201412160194	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(80-125)		
LCS1	o-Xylene		20	22.2	ug/L	111	(79-120)		
LCS2	o-Xylene		20	20.8	ug/L	104	(79-120)	20	7.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.400	ug/L	80	(50-150)		
MS_201412160194	o-Xylene	ND	10	10.3	ug/L	103	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	21.6	ug/L	108	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	4.7
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(71-145)		
LCS1	Styrene		20	20.4	ug/L	102	(77-125)		
LCS2	Styrene		20	18.7	ug/L	94	(77-125)	20	8.7
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.650	ug/L	130	(50-150)		
MS_201412160194	Styrene	ND	10	7.18	ug/L	72	(66-142)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Tetrachloroethylene (PCE)		20	22.2	ug/L	111	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	21.0	ug/L	105	(79-122)	20	5.6
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412160194	Tetrachloroethylene (PCE)	ND	10	11.2	ug/L	112	(72-146)		
LCS1	Tetrahydrofuran		200	182	ug/L	91	(67-130)		
LCS2	Tetrahydrofuran		200	157	ug/L	78	(67-130)	20	15
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	4.25	ug/L	85	(50-150)		
MS_201412160194	Tetrahydrofuran	ND	100	117	ug/L	117	(68-134)		
LCS1	Toluene		20	22.6	ug/L	113	(80-118)		
LCS2	Toluene		20	21.1	ug/L	106	(80-118)	20	6.9
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	Toluene	ND	10	11.0	ug/L	110	(66-143)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			99.6	%	100	(70-130)		
MBLK	Toluene-d8 (S)			96.6	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.4	%	99	(70-130)		
MRLW	Toluene-d8 (S)			93.8	%	94	(70-130)		
MS_201412160194	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	22.9	ug/L	114	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	21.4	ug/L	107	(82-122)	20	6.8
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.370	ug/L	74	(50-150)		
MS_201412160194	trans-1,2-Dichloroethylene	ND	10	11.4	ug/L	114	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	24.7	ug/L	123	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	23.1	ug/L	116	(64-126)	20	6.7
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201412160194	trans-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(61-127)		
LCS1	Trichloroethylene (TCE)		20	24.2	ug/L	121	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.7	ug/L	109	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Trichloroethylene (TCE)	ND	10	12.0	ug/L	119	(71-139)		
LCS1	Trichlorofluoromethane		20	21.3	ug/L	106	(70-145)		
LCS2	Trichlorofluoromethane		20	21.3	ug/L	106	(70-145)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Trichlorofluoromethane	ND	10	11.7	ug/L	117	(63-161)		
LCS1	Vinyl Acetate		100	108	ug/L	108	(72-136)		
LCS2	Vinyl Acetate		100	94.6	ug/L	95	(72-136)	20	13
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	3.31	ug/L	132	(50-150)		
MS_201412160194	Vinyl Acetate	ND	50	50.2	ug/L	100	(55-146)		
LCS1	Vinyl chloride (VC)		20	23.2	ug/L	116	(66-140)		
LCS2	Vinyl chloride (VC)		20	23.1	ug/L	115	(66-140)	20	0.43
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.630	ug/L	126	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.210	ug/L	70	(50-150)		
MS_201412160194	Vinyl chloride (VC)	ND	10	13.5	ug/L	135	(56-159)		

QC Ref# 810038 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 12/18/2014

LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			116	%	116	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
LCS1	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			95.2	%	95	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	Bromodichloromethane		5.0	5.17	ug/L	103	(70-130)		
LCS2	Bromodichloromethane		5.0	5.22	ug/L	104	(70-130)	20	0.96
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	4.24	ug/L	85	(70-130)		
LCS2	Bromoform		5.0	4.50	ug/L	90	(70-130)	20	6.0
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.13	ug/L	103	(70-130)	20	7.3
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.91	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.51	ug/L	110	(70-130)	20	12
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			96.6	%	97	(70-130)		

QC Ref# 810089 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 12/18/2014

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Alkalinity in CaCO3 units		100	99.5	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	101	mg/L	101	(90-110)	20	1.5
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.88	mg/L	94	(50-150)		
MS_201412160217	Alkalinity in CaCO3 units	180	100	276	mg/L	98	(80-120)		
MS_201412160218	Alkalinity in CaCO3 units	170	100	223	mg/L	<u>53</u>	(80-120)		
MSD_201412160217	Alkalinity in CaCO3 units	180	100	276	mg/L	98	(80-120)	20	0.0
MSD_201412160218	Alkalinity in CaCO3 units	170	100	220	mg/L	<u>51</u>	(80-120)	20	1.4

QC Ref# 810496 - ICP Metals by EPA 200.7

Analysis Date: 12/19/2014

LCS1	Calcium Total ICAP		100	97.1	mg/L	97	(85-115)		
LCS2	Calcium Total ICAP		100	99.9	mg/L	100	(85-115)	20	2.8
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.984	mg/L	98	(50-150)		
MS_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)		
MS2_201412170727	Calcium Total ICAP	60	100	156	mg/L	96	(70-130)		
MSD_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)	20	0.0
MSD2_201412170727	Calcium Total ICAP	60	100	163	mg/L	102	(70-130)	20	4.4
LCS1	Magnesium Total ICAP		40	41.1	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		40	41.5	mg/L	104	(85-115)	20	0.97
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201412170726	Magnesium Total ICAP	11	40	52.9	mg/L	105	(70-130)		
MS2_201412170727	Magnesium Total ICAP	13	40	53.6	mg/L	102	(70-130)		
MSD_201412170726	Magnesium Total ICAP	11	40	52.4	mg/L	104	(70-130)	20	0.95
MSD2_201412170727	Magnesium Total ICAP	13	40	56.2	mg/L	108	(70-130)	20	4.7
LCS1	Sodium Total ICAP		100	100	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		100	101	mg/L	101	(85-115)	20	1
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.08	mg/L	108	(50-150)		
MS_201412170726	Sodium Total ICAP	72	100	177	mg/L	104	(70-130)		
MS2_201412170727	Sodium Total ICAP	73	100	169	mg/L	96	(70-130)		
MSD_201412170726	Sodium Total ICAP	72	100	174	mg/L	102	(70-130)	20	1.7
MSD2_201412170727	Sodium Total ICAP	73	100	174	mg/L	102	(70-130)	20	2.9

QC Ref# 810768 - ICPMS Metals by EPA 200.8

Analysis Date: 12/22/2014

LCS1	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Antimony Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412170788	Antimony Total ICAP/MS	ND	50	50.2	ug/L	99	(70-130)		
MS2_201412170794	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)		
MSD_201412170788	Antimony Total ICAP/MS	ND	50	49.6	ug/L	98	(70-130)	20	1.2
MSD2_201412170794	Antimony Total ICAP/MS	ND	50	48.0	ug/L	96	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.940	ug/L	94	(50-150)		
MS_201412170788	Arsenic Total ICAP/MS	1.4	20	21.5	ug/L	101	(70-130)		
MS2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.5	ug/L	103	(70-130)		
MSD_201412170788	Arsenic Total ICAP/MS	1.4	20	21.0	ug/L	98	(70-130)	20	2.4
MSD2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.0	ug/L	101	(70-130)	20	2.3
LCS1	Barium Total ICAP/MS		100	97.2	ug/L	97	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.6	ug/L	98	(85-115)	20	0.41
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	97	(50-150)		
MS_201412170788	Barium Total ICAP/MS	59	100	153	ug/L	94	(70-130)		
MS2_201412170794	Barium Total ICAP/MS	59	100	156	ug/L	97	(70-130)		
MSD_201412170788	Barium Total ICAP/MS	59	100	155	ug/L	96	(70-130)	20	1.3
MSD2_201412170794	Barium Total ICAP/MS	59	100	150	ug/L	91	(70-130)	20	3.9
LCS1	Beryllium Total ICAP/MS		5.0	4.77	ug/L	95	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.84	ug/L	97	(85-115)	20	1.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.931	ug/L	93	(50-150)		
MS_201412170788	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)		
MS2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.93	ug/L	99	(70-130)		
MSD_201412170788	Beryllium Total ICAP/MS	ND	5.0	5.33	ug/L	106	(70-130)	20	7.2
MSD2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.98	ug/L	100	(70-130)	20	1.6
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201412170788	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MS2_201412170794	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201412170788	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.99
MSD2_201412170794	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	3.0
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chromium Total ICAP/MS		100	97.0	ug/L	97	(85-115)	20	0.92
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.31	ug/L	131	(50-150)		
MS_201412170788	Chromium Total ICAP/MS	6.9	100	103	ug/L	96	(70-130)		
MS2_201412170794	Chromium Total ICAP/MS	4.2	100	100	ug/L	96	(70-130)		
MSD_201412170788	Chromium Total ICAP/MS	6.9	100	101	ug/L	94	(70-130)	20	2.0
MSD2_201412170794	Chromium Total ICAP/MS	4.2	100	97.6	ug/L	93	(70-130)	20	2.4
LCS1	Cobalt Total ICAP/MS		100	95.8	ug/L	96	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	96.2	ug/L	96	(85-115)	20	0.42
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412170788	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		
MS2_201412170794	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		
MSD_201412170788	Cobalt Total ICAP/MS	ND	100	92.6	ug/L	92	(70-130)	20	2.0
MSD2_201412170794	Cobalt Total ICAP/MS	ND	100	92.7	ug/L	93	(70-130)	20	2.5
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412170788	Copper Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)		
MS2_201412170794	Copper Total ICAP/MS	ND	100	95.9	ug/L	94	(70-130)		
MSD_201412170788	Copper Total ICAP/MS	ND	100	97.0	ug/L	96	(70-130)	20	0.31
MSD2_201412170794	Copper Total ICAP/MS	ND	100	94.9	ug/L	93	(70-130)	20	1.1
LCS1	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.510	ug/L	102	(50-150)		
MS_201412170788	Lead Total ICAP/MS	ND	20	20.8	ug/L	103	(70-130)		
MS2_201412170794	Lead Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201412170788	Lead Total ICAP/MS	ND	20	20.6	ug/L	102	(70-130)	20	0.97
MSD2_201412170794	Lead Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	2.5
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	108	ug/L	108	(85-115)	20	0.93
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	104	(50-150)		
MS_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)		
MS2_201412170794	Molybdenum Total ICAP/MS	4	100	115	ug/L	111	(70-130)		
MSD_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201412170794	Molybdenum Total ICAP/MS	4	100	114	ug/L	110	(70-130)	20	0.87
LCS1	Nickel Total ICAP/MS		50	51.7	ug/L	103	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.2	ug/L	102	(85-115)	20	0.97
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.12	ug/L	102	(50-150)		
MS_201412170788	Nickel Total ICAP/MS	8	50	57.1	ug/L	98	(70-130)		
MS2_201412170794	Nickel Total ICAP/MS	ND	50	53.3	ug/L	99	(70-130)		
MSD_201412170788	Nickel Total ICAP/MS	8	50	56.1	ug/L	96	(70-130)	20	1.8
MSD2_201412170794	Nickel Total ICAP/MS	ND	50	52.6	ug/L	97	(70-130)	20	0.76
LCS1	Selenium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.50
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201412170788	Selenium Total ICAP/MS	ND	20	20.8	ug/L	99	(70-130)		
MS2_201412170794	Selenium Total ICAP/MS	ND	20	20.6	ug/L	99	(70-130)		
MSD_201412170788	Selenium Total ICAP/MS	ND	20	19.7	ug/L	94	(70-130)	20	5.4
MSD2_201412170794	Selenium Total ICAP/MS	ND	20	20.2	ug/L	96	(70-130)	20	3.9
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	0.51
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.955	ug/L	96	(50-150)		
MS_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MS2_201412170794	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	0.50
MSD2_201412170794	Thallium Total ICAP/MS	ND	20	19.5	ug/L	98	(70-130)	20	2.5
LCS1	Vanadium Total ICAP/MS		100	94.8	ug/L	95	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	95.4	ug/L	95	(85-115)	20	0.63
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.74	ug/L	91	(50-150)		
MS_201412170788	Vanadium Total ICAP/MS	ND	100	98.9	ug/L	97	(70-130)		
MS2_201412170794	Vanadium Total ICAP/MS	5	100	100	ug/L	95	(70-130)		
MSD_201412170788	Vanadium Total ICAP/MS	ND	100	97.8	ug/L	96	(70-130)	20	1.1
MSD2_201412170794	Vanadium Total ICAP/MS	5	100	99.0	ug/L	94	(70-130)	20	0.90
LCS1	Zinc Total ICAP/MS		100	114	ug/L	114	(85-115)		
LCS2	Zinc Total ICAP/MS		100	111	ug/L	111	(85-115)	20	2.7
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	27.5	ug/L	138	(50-150)		
MS_201412170788	Zinc Total ICAP/MS	ND	100	111	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)		
MSD_201412170788	Zinc Total ICAP/MS	ND	100	108	ug/L	95	(70-130)	20	2.7
MSD2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)	20	3.9
QC Ref# 810900 - ICPMS Metals by EPA 200.8						Analysis Date: 12/18/2014			
LCS1	Antimony dissolved ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201412090419	Antimony dissolved ICAP/MS		50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony dissolved ICAP/MS		50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony dissolved ICAP/MS		50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony dissolved ICAP/MS		50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Antimony Total ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201412090419	Antimony Total ICAP/MS	ND	50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony Total ICAP/MS	ND	50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony Total ICAP/MS	ND	50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony Total ICAP/MS	ND	50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic dissolved ICAP/MS		20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Barium dissolved ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium dissolved ICAP/MS		100	157	ug/L	<u>157</u>	(70-130)		
MS2_201412090283	Barium dissolved ICAP/MS		100	173	ug/L	<u>173</u>	(70-130)		
MSD_201412090419	Barium dissolved ICAP/MS		100	155	ug/L	<u>155</u>	(70-130)	20	1.3
MSD2_201412090283	Barium dissolved ICAP/MS		100	176	ug/L	<u>176</u>	(70-130)	20	1.7
LCS1	Barium Total ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium Total ICAP/MS	59	100	157	ug/L	<u>157</u>	(70-130)		
MS2_201412090283	Barium Total ICAP/MS	63	100	173	ug/L	<u>173</u>	(70-130)		
MSD_201412090419	Barium Total ICAP/MS	59	100	155	ug/L	<u>155</u>	(70-130)	20	1.3
MSD2_201412090283	Barium Total ICAP/MS	63	100	176	ug/L	<u>176</u>	(70-130)	20	1.7
LCS1	Beryllium dissolved ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium dissolved ICAP/MS		5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium dissolved ICAP/MS		5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Cadmium dissolved ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium dissolved ICAP/MS		20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium dissolved ICAP/MS		20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Cadmium Total ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Chromium dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium dissolved ICAP/MS		100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium dissolved ICAP/MS		100	124	ug/L	124	(70-130)	20	1.6
LCS1	Chromium Total ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium Total ICAP/MS	21	100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium Total ICAP/MS	21	100	124	ug/L	124	(70-130)	20	1.6
LCS1	Cobalt dissolved ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt dissolved ICAP/MS		100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)		
MSD_201412090419	Cobalt dissolved ICAP/MS		100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	3.3
LCS1	Cobalt Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412090419	Cobalt Total ICAP/MS	ND	100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	3.3
LCS1	Copper dissolved ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper dissolved ICAP/MS		100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper dissolved ICAP/MS		100	98.2	ug/L	98	(70-130)		
MSD_201412090419	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper dissolved ICAP/MS		100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Copper Total ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper Total ICAP/MS	3.1	100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper Total ICAP/MS	4.9	100	98.2	ug/L	98	(70-130)		
MSD_201412090419	Copper Total ICAP/MS	3.1	100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper Total ICAP/MS	4.9	100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Lead dissolved ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead dissolved ICAP/MS		20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Molybdenum dissolved ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	19.5	ug/L	<u>20</u>	(85-115)	20	<u>130</u>
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.82	ug/L	91	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090419	Molybdenum dissolved ICAP/MS		100	97.4	ug/L	97	(70-130)		
MS2_201412090283	Molybdenum dissolved ICAP/MS		100	98.7	ug/L	99	(70-130)		
MSD_201412090419	Molybdenum dissolved ICAP/MS		100	96.7	ug/L	97	(70-130)	20	0.72
MSD2_201412090283	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	2.3
LCS1	Molybdenum Total ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	94.4	ug/L	94	(85-115)	20	1.7
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412090419	Molybdenum Total ICAP/MS	5.3	100	97.4	ug/L	92	(70-130)		
MS2_201412090283	Molybdenum Total ICAP/MS	2.5	100	98.7	ug/L	96	(70-130)		
MSD_201412090419	Molybdenum Total ICAP/MS	5.3	100	96.7	ug/L	91	(70-130)	20	0.72
MSD2_201412090283	Molybdenum Total ICAP/MS	2.5	100	101	ug/L	98	(70-130)	20	2.3
LCS1	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201412090419	Nickel dissolved ICAP/MS		50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel dissolved ICAP/MS		50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel dissolved ICAP/MS		50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel dissolved ICAP/MS		50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201412090419	Nickel Total ICAP/MS	ND	50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel Total ICAP/MS	ND	50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel Total ICAP/MS	ND	50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Selenium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MRL_CHK	Selenium dissolved ICAP/MS		5.0	2.85	ug/L	57	(50-150)		
MS_201412090419	Selenium dissolved ICAP/MS		20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium dissolved ICAP/MS		20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium dissolved ICAP/MS		20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium dissolved ICAP/MS		20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Selenium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Selenium Total ICAP/MS		5.0	5.38	ug/L	108	(50-150)		
MS_201412090419	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium dissolved ICAP/MS		20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium dissolved ICAP/MS		20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium dissolved ICAP/MS		20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Vanadium Dissolved ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Dissolved ICAP/MS		100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Dissolved ICAP/MS		100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Dissolved ICAP/MS		100	111	ug/L	111	(70-130)	20	0.91
LCS1	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Total ICAP/MS	5.0	100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Total ICAP/MS	5.9	100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Total ICAP/MS	5.0	100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Total ICAP/MS	5.9	100	111	ug/L	111	(70-130)	20	0.91
LCS1	Zinc dissolved ICAP/MS		100	96.5	ug/L	97	(85-115)		

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Zinc dissolved ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc dissolved ICAP/MS		100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc dissolved ICAP/MS		100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	2.0
LCS1	Zinc Total ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0

QC Ref# 810929 - Ammonia Nitrogen by EPA 350.1

Analysis Date: 12/22/2014

LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.517	mg/L	103	(90-110)	20	1.1
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0534	mg/L	107	(53-118)		
MS_201412230461	Ammonia Nitrogen	ND	0.5	0.546	mg/L	108	(90-110)		
MS2_201412120185	Ammonia Nitrogen	ND	0.5	0.470	mg/L	93	(90-110)		
MSD_201412230461	Ammonia Nitrogen	ND	0.5	0.529	mg/L	105	(90-110)	20	3.2
MSD2_201412120185	Ammonia Nitrogen	ND	0.5	0.457	mg/L	91	(90-110)	20	2.8

QC Ref# 810985 - Total Organic Halides by SW9020/SM5320

Analysis Date: 12/22/2014

LCS1	Total Organic Halides Rep 1		50	48.5	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	204	ug/L	102	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRLHI	Total Organic Halides Rep 1			7.51	ug/L	0			
MS_201412090527	Total Organic Halides Rep 1	27	50	84.9	ug/L	<u>117</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 1	27	50	54.1	ug/L	<u>55</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.04	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.9	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	196	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRLHI	Total Organic Halides Rep 2			7.37	ug/L	0			
MS_201412090527	Total Organic Halides Rep 2	25	50	84.9	ug/L	<u>119</u>	(90-110)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412090527	Total Organic Halides Rep 2	25	50	54.1	ug/L	<u>58</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		
QC Ref# 811010 - ICPMS Metals by EPA 200.8						Analysis Date: 12/23/2014			
LCS1	Antimony Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.0	ug/L	100	(85-115)	20	0.80
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201412230677	Antimony Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)		
MSD_201412230677	Antimony Total ICAP/MS	ND	50	50.8	ug/L	101	(70-130)	20	0.99
LCS1	Molybdenum Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)	20	2.8
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201412230677	Molybdenum Total ICAP/MS	5.1	100	116	ug/L	111	(70-130)		
MSD_201412230677	Molybdenum Total ICAP/MS	5.1	100	118	ug/L	113	(70-130)	20	1.7
QC Ref# 811253 - ICPMS Metals by EPA 200.8						Analysis Date: 12/29/2014			
LCS1	Silver dissolved ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.485	ug/L	97	(50-150)		
MS_201412230354	Silver dissolved ICAP/MS	ND	50	40.4	ug/L	81	(70-130)		
MS2_201412230370	Silver dissolved ICAP/MS	ND	50	18.2	ug/L	<u>36</u>	(70-130)		
MSD_201412230354	Silver dissolved ICAP/MS	ND	50	17.5	ug/L	<u>35</u>	(70-130)	20	<u>79</u>
MSD2_201412230370	Silver dissolved ICAP/MS	ND	50	17.4	ug/L	<u>35</u>	(70-130)	20	4.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

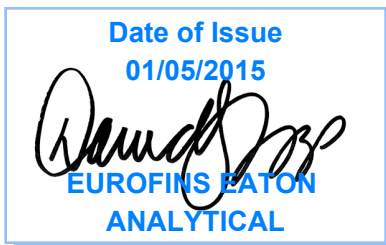


AT-1807

Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 512478
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
P.O. Drawer A
Olancha, CA 93549

Client ID: CRYSTAL-ROX
Folder #: 512478
Project: CGR-OLANCHA
Sample Group: Wastewater

Attn: Manuel Luna
Phone: 760-764-1822

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **December 16, 2014 at 1111**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date																																				
201412160249	EVAP POND	12/15/2014 0930																																				
	<table border="1"> <tr> <td>@ICPMS</td> <td>@ICPMS</td> <td>@HAA6</td> </tr> <tr> <td>@QUANT2000</td> <td>@THM524</td> <td>@VOAPP</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Ammonia Nitrogen</td> <td>Bicarb.Alkalinity as HCO3,calc</td> </tr> <tr> <td>Biochemical Oxygen Demand,Totl</td> <td>Calcium Total ICAP</td> <td>Chemical Oxygen Demand (COD)</td> </tr> <tr> <td>Chloride</td> <td>Dissolved Oxygen</td> <td>Field pH</td> </tr> <tr> <td>Field Specific Conductance</td> <td>Free Chlorine Residual</td> <td>Freight - RUSH</td> </tr> <tr> <td>Magnesium Total ICAP</td> <td>Nitrate as Nitrogen by IC</td> <td>Nitrite Nitrogen by IC</td> </tr> <tr> <td>Orthophosphate as P (OPO4)</td> <td>PH (H3=past HT not compliant)</td> <td>RUSH</td> </tr> <tr> <td>Sodium Total ICAP</td> <td>Specific Conductance</td> <td>Sulfate</td> </tr> <tr> <td>Surfactants</td> <td>Total Chlorine Residual</td> <td>Total Dissolved Solid (TDS)</td> </tr> <tr> <td>Total Kjeldahl Nitrogen</td> <td>Total Nitrogen-Calc</td> <td>Total Organic Halogen</td> </tr> <tr> <td>Total phosphorus as P</td> <td>Total Suspended Solids (TSS)</td> <td></td> </tr> </table>	@ICPMS	@ICPMS	@HAA6	@QUANT2000	@THM524	@VOAPP	Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)	Chloride	Dissolved Oxygen	Field pH	Field Specific Conductance	Free Chlorine Residual	Freight - RUSH	Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	RUSH	Sodium Total ICAP	Specific Conductance	Sulfate	Surfactants	Total Chlorine Residual	Total Dissolved Solid (TDS)	Total Kjeldahl Nitrogen	Total Nitrogen-Calc	Total Organic Halogen	Total phosphorus as P	Total Suspended Solids (TSS)		
@ICPMS	@ICPMS	@HAA6																																				
@QUANT2000	@THM524	@VOAPP																																				
Alkalinity in CaCO3 units	Ammonia Nitrogen	Bicarb.Alkalinity as HCO3,calc																																				
Biochemical Oxygen Demand,Totl	Calcium Total ICAP	Chemical Oxygen Demand (COD)																																				
Chloride	Dissolved Oxygen	Field pH																																				
Field Specific Conductance	Free Chlorine Residual	Freight - RUSH																																				
Magnesium Total ICAP	Nitrate as Nitrogen by IC	Nitrite Nitrogen by IC																																				
Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)	RUSH																																				
Sodium Total ICAP	Specific Conductance	Sulfate																																				
Surfactants	Total Chlorine Residual	Total Dissolved Solid (TDS)																																				
Total Kjeldahl Nitrogen	Total Nitrogen-Calc	Total Organic Halogen																																				
Total phosphorus as P	Total Suspended Solids (TSS)																																					
201412160250	Travel Blank	12/15/2014 0930																																				
	@VOAPP TB																																					

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @HAA6 -- Haloacetic Acids
- @QUANT2000 -- Quantitray Coliforms
- @THM524 -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624

512478

CHAIN OF CUSTODY RECORD



Eaton Analytical

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
 Monterey, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

LOGIN COMMENTS:

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona

Monterey **3.0-0.2** °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen

Partially Frozen

Thawed

Wet Ice No Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx UPS / DHL / Area Fast / Top Line / Other: _____

SAMPLES CHECKED AGAINST COC BY: bc

SAMPLES LOGGED IN BY: bc

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

_____ °C (Compliance: 4 ± 2 °C)

2.8 °C (Compliance: 4 ± 2 °C)

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CG Roxanne LLC

PROJECT CODE: CGR-olancha

COMPLIANCE SAMPLES

NON-COMPLIANCE SAMPLES

- Requires state forms

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), **OR**
 list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only

STD ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
12/15	0930	Evap Pond	Crystal Box	WW	738	66.7	List

* MATRIX TYPES: RSW = Raw Surface Water
 RGW = Raw Ground Water
 CFW = Chlor(am)inated Finished Water
 FW = Other Finished Water

SEAW = Sea Water
 WW = Waste Water
 BW = Bottled Water
 SW = Storm Water

SO = Soil
 SL = Sludge

O = Other - Please Identify

SIGNED BY: George Castaneda
 RELINQUISHED BY: _____
 RECEIVED BY: Ray Johnson
 RELINQUISHED BY: _____
 RECEIVED BY: _____

PRINT NAME: George Castaneda
 SIGNATURE: _____

COMPANY/TITLE: CG Roxanne LLC
 SIGNATURE: _____

DATE: 12/15/14
 TIME: 0930

Kit Order for Crystal Geyser Roxane
David S Tripp is your Eurofins Eaton Analytical Project Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX: (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 98713
Created By: DST
Deliver By: 10/10/2014
STG: Bottle Orders
Ice Type: W

Client ID: CRYSTAL-ROX
Project Code: CGR-OLANCHA Bottle Orders
Group Name: Wastewater
PO#/JOB#:

Ship Sample Kits to
Crystal Geyser Roxane
1210 South Highway 395
Olancha, CA 93549

Attn: Manuel Luna - Shipping
Phone: 760-764-1822
Fax: 760-764-2861

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if any	UN DOT #
10	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
10	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	500ml acid poly 2ml HNO3 (18%)	UN2031
10	@ICPMS, Surfactants	500ml poly no preservative	
10	@QUANT2000	100ml poly sterilized 0.25ml thio (8%)	
10	@THM524	40ml amber glass vial 0.25ml thio (8%)	
10	@VOAPP	40ml amber glass vial 4drops 6N HCL (36%)	UN1789
10	@VOAPP TB	40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	250ml poly no preservative	
10	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
10	Biochemical Oxygen Demand Totl	1L poly no preservative	
10	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
10	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml-poly no-preservative	
10	Dissolved Oxygen	1 BOD bottle	
10	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
10	Orthophosphate as P	1 125ml poly OPO4_no preservative	
10	Total Dissolved Solid (TDS), Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	
10	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments

SHIPPING: Please deliver ASAP, but no later than 10/10/14 - 10 separate coolers.

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395

Origin ID: IYKA



J142214092303uv

Olancho, CA 93549

Ship Date: 15DEC14
ActWgt: 25.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158

BILL SENDER

David
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

Ref #
Invoice #
PO #
Dept #

2 of 2

TUE - 16 DEC AA
STANDARD OVERNIGHT

MPS# 7722 3948 7842

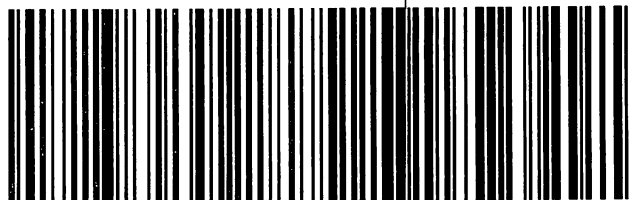
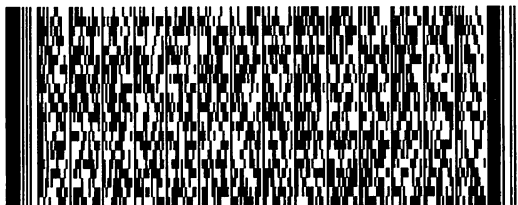
0263

Mstr# 7722 3948 7680

0201

91016
CA-US
BUR

92 WHPA



522G2/D/C75/8A09

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 512478

Crystal Geysers Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201412160249				
		<u>EVAP POND</u>				
12/18/2014 7:14	Acetone		32		ug/L	10
12/23/2014 16:26	Alkalinity in CaCO3 units		18000		mg/L	2
12/30/2014 18:46	Antimony dissolved ICAP/MS		41		ug/L	20
01/02/2015 21:22	Antimony Total ICAP/MS		46	6	ug/L	10
12/30/2014 18:46	Arsenic dissolved ICAP/MS		26000		ug/L	20
12/22/2014 18:42	Arsenic Total ICAP/MS		23000	10	ug/L	100
12/22/2014 18:44	Barium Total ICAP/MS		26	2000	ug/L	20
12/19/2014 10:47	Bicarb. Alkalinity as HCO3calc		22000		mg/L	2
12/17/2014 09:13	Biochemical Oxygen Demand, Totl		4.3		mg/L	3
12/30/2014 18:46	Cadmium dissolved ICAP/MS		36		ug/L	10
12/22/2014 18:44	Cadmium Total ICAP/MS		41	5	ug/L	5
12/17/2014 11:39	Chemical Oxygen Demand (COD)		400		mg/L	50
12/16/2014 16:15	Chloride		13000	250	mg/L	500
12/30/2014 18:46	Chromium dissolved ICAP/MS		26		ug/L	20
12/22/2014 18:44	Chromium Total ICAP/MS		26	100	ug/L	10
12/18/2014 7:14	cis-1,3-Dichloropropene		0.53		ug/L	0.5
12/30/2014 18:46	Copper dissolved ICAP/MS		56		ug/L	40
12/22/2014 18:44	Copper Total ICAP/MS		120	1300	ug/L	20
12/18/2014 01:09	Dichloroacetic acid		1.2		ug/L	1
12/16/2014 13:13	Dissolved Oxygen		2.2		mg/L	0.5
12/15/2014 09:30	Field pH		7.38		Units	0.1
12/15/2014 09:30	Field Specific Conductance		66.8		umho/cm	
12/16/2014 15:00	Free Chlorine Residual (H3=past HT not compliant)		0.10		mg/L	0.1
12/18/2014 11:35	Kjeldahl Nitrogen		3.0		mg/L	0.2
12/22/2014 18:44	Lead Total ICAP/MS		6.5	15	ug/L	5
12/30/2014 18:46	Molybdenum dissolved ICAP/MS		13000		ug/L	40
12/22/2014 18:42	Molybdenum Total ICAP/MS		13000		ug/L	200
12/22/2014 18:44	Nickel Total ICAP/MS		71		ug/L	50
12/16/2014 17:36	Orthophosphate as P		82		mg/L	1
12/17/2014 18:40	PH (H3=past HT not compliant)		7.4		Units	0.1
12/23/2014 17:15	Sodium Total ICAP		24000		mg/L	100
12/17/2014 18:40	Specific Conductance, 25 C		67000		umho/cm	2
12/16/2014 16:15	Sulfate		24000	250	mg/L	250
12/16/2014 13:01	Surfactants		0.32	0.5	mg/L	0.05
12/16/2014 15:00	Total Chlorine Residual (H3=past HT not compliant)		0.10	4	mg/L	0.1
12/18/2014 10:10	Total Dissolved Solids (TDS)		72000	500	mg/L	10

SUMMARY OF POSITIVE DATA ONLY

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1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 512478

Crystal Geysers Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/16/2014 1111

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
12/18/2014 14:52	Total Nitrogen-Calc		3.0		mg/L	0.2
12/22/2014 22:11	Total Organic Halides Average		50		ug/L	20
12/22/2014 22:11	Total Organic Halides Rep 1		54		ug/L	20
12/22/2014 22:11	Total Organic Halides Rep 2		46		ug/L	20
12/19/2014 18:46	Total phosphorus as P		82		mg/L	2
12/17/2014 18:11	Total Suspended Solids (TSS)		67		mg/L	10
12/30/2014 18:46	Vanadium Dissolved ICAP/MS		11000		ug/L	60
12/22/2014 18:42	Vanadium Total ICAP/MS		10000		ug/L	300

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 Report: 512478

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EVAP POND (201412160249)						Sampled on 12/15/2014 0930		
2510B/ SW9050 - Field Specific Conductance								
	12/15/2014	09:30	809683	(2510B/ SW9050)	Field Specific Conductance	66.8	umho/cm	1
EPA 150.1 - Field pH								
	12/15/2014	09:30	809682	(EPA 150.1)	Field pH	7.38	Units	0.1 1
EPA 200.8 - ICPMS Metals								
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Antimony dissolved ICAP/MS	41	ug/L	20 20
12/15/2014	01/02/2015	21:22	812209	(EPA 200.8)	Antimony Total ICAP/MS	46	ug/L	10 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Arsenic dissolved ICAP/MS	26000	ug/L	20 20
12/15/2014	12/22/2014	18:42	810768	(EPA 200.8)	Arsenic Total ICAP/MS	23000	ug/L	100 100
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	40 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Barium Total ICAP/MS	26	ug/L	20 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	20 20
12/15/2014	12/22/2014	18:42	810768	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	100 100
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Cadmium dissolved ICAP/MS	36	ug/L	10 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Cadmium Total ICAP/MS	41	ug/L	5 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Chromium dissolved ICAP/MS	26	ug/L	20 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Chromium Total ICAP/MS	26	ug/L	10 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	20 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Cobalt Total ICAP/MS	ND (D1)	ug/L	20 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Copper dissolved ICAP/MS	56	ug/L	40 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Copper Total ICAP/MS	120	ug/L	20 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	10 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Lead Total ICAP/MS	6.5	ug/L	5 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Molybdenum dissolved ICAP/MS	13000	ug/L	40 20
12/15/2014	12/22/2014	18:42	810768	(EPA 200.8)	Molybdenum Total ICAP/MS	13000 (B7)	ug/L	200 100
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	100 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Nickel Total ICAP/MS	71	ug/L	50 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	100 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Selenium Total ICAP/MS	ND (D1)	ug/L	50 10
12/15/2014	12/29/2014	16:52	811253	(EPA 200.8)	Silver dissolved ICAP/MS	ND (D1)	ug/L	1 2
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Silver Total ICAP/MS	ND (D1)	ug/L	5 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	20 20
12/15/2014	12/22/2014	18:44	810768	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	10 10
12/15/2014	12/30/2014	18:46	811781	(EPA 200.8)	Vanadium Dissolved ICAP/MS	11000	ug/L	60 20
12/15/2014	12/22/2014	18:42	810768	(EPA 200.8)	Vanadium Total ICAP/MS	10000	ug/L	300 100

Rounding on totals after summation.
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 Report: 512478

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/15/2014	12/30/2014	18:46 811781	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	400	20
12/15/2014	12/22/2014	18:44 810768	(EPA 200.8)	Zinc Total ICAP/MS	ND (D1)	ug/L	200	10
EPA 200.7 - ICP Metals								
12/15/2014	12/19/2014	18:59 810496	(EPA 200.7)	Calcium Total ICAP	ND (D1)	mg/L	20	20
12/15/2014	12/19/2014	18:59 810496	(EPA 200.7)	Magnesium Total ICAP	ND (D1)	mg/L	2	20
12/15/2014	12/23/2014	17:15 810496	(EPA 200.7)	Sodium Total ICAP	24000	mg/L	100	100
SM 9223B - Quantitray Coliforms								
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	ND	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	ND	PW	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	Total Coliform Bacteria	<1	MPN/100 mL	1	1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
12/16/2014	12/17/2014	13:02 809815	(SM 9223B)	Total Coliform Bacteria (P/A)	A			1
SW9020/SM5320 - Total Organic Halides								
12/22/2014	12/22/2014	22:11 810985	(SW9020/SM5320)	Total Organic Halides Average	50 (Q5,R1)	ug/L	20	2
12/22/2014	12/22/2014	22:11 810985	(SW9020/SM5320)	Total Organic Halides Rep 1	54 (Q5,R1)	ug/L	20	2
12/22/2014	12/22/2014	22:11 810985	(SW9020/SM5320)	Total Organic Halides Rep 2	46 (Q5,R1)	ug/L	20	2
EPA 353-351 - Total Nitrogen-Calc								
	12/18/2014	14:52	(EPA 353-351)	Total Nitrogen-Calc	3.0	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	12/19/2014	10:47	(SM2330B)	Bicarb.Alkalinity as HCO3calc	22000	mg/L	2	1
SM 6251B - Haloacetic Acids								
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Dichloroacetic acid	1.2	ug/L	1	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	1,2,3-Trichloropropane	93	%		1
12/17/2014	12/18/2014	01:09 809947	(SM 6251B)	2,3-Dibromopropionic acid	89	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	12/16/2014	16:15 809659	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	6.3	500

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Crystal Geyser Roxane
 Manuel Luna
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 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	12/16/2014	16:15 809659	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	6.3	500
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	12/16/2014	16:15 809663	(EPA 300.0)	Chloride	13000	mg/L	500	500
	12/16/2014	16:15 809663	(EPA 300.0)	Sulfate	24000	mg/L	250	500
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	12/19/2014	18:46 809641	(SM4500-PE/EPA 365.1)	Total phosphorus as P	82 (Q5)	mg/L	2	100
EPA 351.2 - Total Kjeldahl Nitrogen								
	12/18/2014	11:35 809995	(EPA 351.2)	Kjeldahl Nitrogen	3.0 (Q5)	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	12/22/2014	17:17 810964	(EPA 350.1)	Ammonia Nitrogen	ND (Q5)	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	1,2-Dichloroethane-d4	110	%		1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	4-Bromofluorobenzene	97	%		1
12/17/2014	12/18/2014	7:14 810038	(EPA 524.2)	Toluene-d8	98	%		1
EPA 624 - Volatile Organics by EPA 624								
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Acetone	32	ug/L	10	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	7:14 810034	(EPA 624)	Bromoform	ND	ug/L	0.5	1

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	cis-1,3-Dichloropropene	0.53	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Trichloroethylene (TCE)	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	1,2-Dichloroethane-d4	110	%		1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	4-Bromofluorobenzene	97	%		1
12/17/2014	12/18/2014	7:14	810034	(EPA 624)	Toluene-d8	98	%		1

SM 2320B - Alkalinity in CaCO3 units

12/23/2014	16:26	810968	(SM 2320B)	Alkalinity in CaCO3 units	18000	mg/L	2	1
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E160.1/SM2540C - Total Dissolved Solids (TDS)

12/17/2014	12/18/2014	10:10	809954	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	72000	mg/L	10	1
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Rounding on totals after summation.
 (c) - indicates calculated results

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Laboratory Data
 Report: 512478

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM4500 - Dissolved Oxygen								
	12/16/2014	13:13 809650	(SM4500)	Dissolved Oxygen	2.2 (H3)	mg/L	0.5	1
SM4500-HB - PH (H3=past HT not compliant)								
	12/17/2014	18:40 809869	(SM4500-HB)	PH (H3=past HT not compliant)	7.4	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	12/17/2014	18:11 809921	(SM 2540D)	Total Suspended Solids (TSS)	67	mg/L	10	1
SM 5540C/EPA 425.1 - Surfactants								
	12/16/2014	13:01 809519	(SM 5540C/EPA 425.1)	Surfactants	0.32	mg/L	0.05	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	12/17/2014	11:39 809774	(EPA 410.4)	Chemical Oxygen Demand (COD)	400 (Q5)	mg/L	50	10
SM2510B - Specific Conductance								
	12/17/2014	18:40 809871	(SM2510B)	Specific Conductance, 25 C	67000 (EB)	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand,Totl								
	12/17/2014	09:13 809640	(SM5210B 405.1)	Biochemical Oxygen Demand,Totl	4.3 (L2)	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	12/16/2014	17:36 809648	(4500P-E/365.1)	Orthophosphate as P	82	mg/L	1	100
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	12/16/2014	15:00 809851	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	0.10 (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	12/16/2014	15:00 809825	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	0.10 (H5)	mg/L	0.1	1

Travel Blank (201412160250)

Sampled on 12/15/2014 0930

EPA 624 - Volatile Organics by EPA 624

12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	Acetone	ND	ug/L	10	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/17/2014	12/18/2014	6:51 810034	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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Laboratory Data
 Report: 512478

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/16/2014 1111

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Bromodichloromethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Bromoform	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Chlorodibromomethane	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Trichloroethylene (TCE)	ND (LK)	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	1,2-Dichloroethane-d4	106	%		1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	4-Bromofluorobenzene	93	%		1
12/17/2014	12/18/2014	6:51	810034	(EPA 624)	Toluene-d8	96	%		1

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Crystal Geysler Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Flags Legend:

B7 - Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

D1 - Sample required dilution due to matrix.

EB - Result estimated. Analyte exceeded the highest calibration standard as required by the EPA/SM method.

H3 - Sample was received and/ or analysis requested past holding time.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

L2 - The associated blank spike recovery was below laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.

R1 - RPD/RSD exceeded the method acceptance limit. See case narrative.

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Crystal Geyser Roxane

QC Ref # 809519 - Surfactants		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: MIA8
QC Ref # 809640 - Biochemical Oxygen Demand,Totl		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: MXT
QC Ref # 809641 - Total phosphorus as P (T-P)		Analysis Date: 12/19/2014
201412160249	EVAP POND	Analyzed by: KXS
QC Ref # 809648 - Orthophosphate as P (OPO4)		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: MIA8
QC Ref # 809650 - Dissolved Oxygen		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: MXT
QC Ref # 809659 - Nitrate, Nitrite by EPA 300.0		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: CYP
QC Ref # 809663 - Chloride, Sulfate by EPA 300.0		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: CYP
QC Ref # 809682 - Field pH		Analysis Date: 12/15/2014
201412160249	EVAP POND	Analyzed by: ADT
QC Ref # 809683 - Field Specific Conductance		Analysis Date: 12/15/2014
201412160249	EVAP POND	Analyzed by: ADT
QC Ref # 809774 - Chemical Oxygen Demand (COD)		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: 6Q4
QC Ref # 809815 - Quantitray Coliforms		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: MHP3
QC Ref # 809825 - Free Chlorine Residual (H3=past HT not complian		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: NJR
QC Ref # 809851 - Total Chlorine Residual (H3=past HT not complian		Analysis Date: 12/16/2014
201412160249	EVAP POND	Analyzed by: NJR
QC Ref # 809869 - PH (H3=past HT not compliant)		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: 6Q4
QC Ref # 809871 - Specific Conductance		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: 6Q4
QC Ref # 809921 - Total Suspended Solids (TSS)		Analysis Date: 12/17/2014
201412160249	EVAP POND	Analyzed by: JRF
QC Ref # 809947 - Haloacetic Acids		Analysis Date: 12/18/2014
201412160249	EVAP POND	Analyzed by: A4H
QC Ref # 809954 - Total Dissolved Solids (TDS)		Analysis Date: 12/18/2014
201412160249	EVAP POND	Analyzed by: JRF

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Crystal Geysers Roxane

QC Ref # 809995 - Total Kjeldahl Nitrogen

201412160249 EVAP POND

Analysis Date: 12/18/2014

Analyzed by: KXS

QC Ref # 810034 - Volatile Organics by EPA 624

201412160249 EVAP POND
201412160250 Travel Blank

Analysis Date: 12/18/2014

Analyzed by: KAM
Analyzed by: KAM

QC Ref # 810038 - Volatile Organics by GCMS

201412160249 EVAP POND

Analysis Date: 12/18/2014

Analyzed by: KAM

QC Ref # 810496 - ICP Metals

201412160249 EVAP POND
201412160249 EVAP POND

Analysis Date: 12/19/2014

Analyzed by: NINA
Analyzed by: NINA

QC Ref # 810768 - ICPMS Metals

201412160249 EVAP POND
201412160249 EVAP POND

Analysis Date: 12/22/2014

Analyzed by: AZS
Analyzed by: AZS

QC Ref # 810964 - Ammonia Nitrogen

201412160249 EVAP POND

Analysis Date: 12/22/2014

Analyzed by: MYH

QC Ref # 810968 - Alkalinity in CaCO3 units

201412160249 EVAP POND

Analysis Date: 12/23/2014

Analyzed by: 6Q4

QC Ref # 810985 - Total Organic Halides

201412160249 EVAP POND

Analysis Date: 12/22/2014

Analyzed by: KXS

QC Ref # 811253 - ICPMS Metals

201412160249 EVAP POND

Analysis Date: 12/29/2014

Analyzed by: AZS

QC Ref # 811781 - ICPMS Metals

201412160249 EVAP POND

Analysis Date: 12/30/2014

Analyzed by: S XK

QC Ref # 812209 - ICPMS Metals

201412160249 EVAP POND

Analysis Date: 01/02/2015

Analyzed by: AZS

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 809519 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 12/16/2014			
LCS1	Surfactants		0.2	0.185	mg/L	93	(90-110)		
LCS2	Surfactants		0.2	0.195	mg/L	97	(90-110)	20	5.3
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0392	mg/L	78	(50-150)		
MS_201412160060	Surfactants	ND	0.2	0.229	mg/L	103	(80-120)		
MSD_201412160060	Surfactants	ND	0.2	0.227	mg/L	102	(80-120)	20	0.88
QC Ref# 809640 - Biochemical Oxygen Demand,Totl by SM5210B 405.1						Analysis Date: 12/17/2014			
DUP1_201412150598	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
DUP2_201412150636	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	152	mg/L	<u>77</u>	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				
QC Ref# 809641 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 12/19/2014			
LCS1	Total phosphorus as P		0.4	0.404	mg/L	101	(90-110)		
LCS2	Total phosphorus as P		0.4	0.391	mg/L	98	(90-110)	20	3.3
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0193	mg/L	97	(50-150)		
MS_201412120253	Total phosphorus as P	1.1	0.4	1.48	mg/L	98	(90-110)		
MSD_201412120253	Total phosphorus as P	1.1	0.4	1.49	mg/L	100	(90-110)	20	0.67
QC Ref# 809648 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 12/16/2014			
LCS1	Orthophosphate as P		0.25	0.257	mg/L	103	(90-110)		
LCS2	Orthophosphate as P		0.25	0.252	mg/L	101	(90-110)	20	2.0
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0120	mg/L	120	(50-150)		
MS_201412170223	Orthophosphate as P	ND	0.5	0.522	mg/L	104	(90-110)		
MSD_201412170223	Orthophosphate as P	ND	0.5	0.515	mg/L	103	(90-110)	20	1.4
QC Ref# 809650 - Dissolved Oxygen by SM4500						Analysis Date: 12/16/2014			
MBLK	Dissolved Oxygen			<0.5	mg/L				
QC Ref# 809659 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 12/16/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.44	mg/L	98	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.39	mg/L	96	(90-110)	20	2.1
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0456	mg/L	91	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0125	mg/L	100	(50-150)		
MS_201412160038	Nitrate as Nitrogen by IC	ND	1.3	1.29	mg/L	100	(80-120)		
MS_201412160213	Nitrate as Nitrogen by IC	10	1.3	12.7	mg/L	92	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412160038	Nitrate as Nitrogen by IC	ND	1.3	1.29	mg/L	100	(80-120)	20	0.0
MSD_201412160213	Nitrate as Nitrogen by IC	10	1.3	12.7	mg/L	93	(80-120)	20	0.0
LCS1	Nitrite Nitrogen by IC		1.0	0.968	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.969	mg/L	97	(90-110)	20	0.10
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0441	mg/L	88	(50-150)		
MRLLLW	Nitrite Nitrogen by IC		0.013	0.0117	mg/L	94	(50-150)		
MS_201412160038	Nitrite Nitrogen by IC	ND	0.5	0.487	mg/L	97	(80-120)		
MS_201412160213	Nitrite Nitrogen by IC	ND	0.5	0.924	mg/L	92	(80-120)		
MSD_201412160038	Nitrite Nitrogen by IC	ND	0.5	0.482	mg/L	96	(80-120)	20	1.0
MSD_201412160213	Nitrite Nitrogen by IC	ND	0.5	0.940	mg/L	94	(80-120)	20	1.7

QC Ref# 809663 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 12/16/2014

LCS1	Chloride		25	24.9	mg/L	100	(90-110)		
LCS2	Chloride		25	24.4	mg/L	97	(90-110)	20	2.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.394	mg/L	79	(50-150)		
MS_201412160213	Chloride	28	13	53.6	mg/L	100	(80-120)		
MSD_201412160213	Chloride	28	13	53.9	mg/L	102	(80-120)	20	0.56
LCS1	Sulfate		50	51.8	mg/L	104	(90-110)		
LCS2	Sulfate		50	50.8	mg/L	102	(90-110)	20	2.0
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.927	mg/L	93	(50-150)		
MRLLLW	Sulfate		0.25	0.256	mg/L	102	(50-150)		
MS_201412160213	Sulfate	18	25	69.6	mg/L	104	(80-120)		
MSD_201412160213	Sulfate	18	25	70.2	mg/L	105	(80-120)	20	0.86

QC Ref# 809774 - Chemical Oxygen Demand (COD) by EPA 410.4

Analysis Date: 12/17/2014

LCS1	Chemical Oxygen Demand (COD)		50	52.0	mg/L	104	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	52.0	mg/L	104	(90-110)	20	0.0
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	7.00	mg/L	140	(50-150)		
MS_201412160194	Chemical Oxygen Demand (COD)	57	50	106	mg/L	98	(90-110)		
MSD_201412160194	Chemical Oxygen Demand (COD)	57	50	106	mg/L	98	(90-110)	20	0.0

QC Ref# 809825 - Free Chlorine Residual (H3=past HT not compliant) by SM

Analysis Date: 12/16/2014

4500CL-G/HACH

LCS1	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.970	mg/L	97	(85-115)	20	2.1
MBLK	Free Chlorine Residual			<0.1	mg/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 809851 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 12/16/2014			
LCS1	Total Chlorine Residual		1.0	1.01	mg/L	101	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.02	mg/L	102	(85-115)	20	0.99
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 809869 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 12/17/2014			
DUP_201412120269	PH (H3=past HT not compliant)	7.6	0.01	7.59	Units		(0-20)	20	0.40
DUP_201412160216	PH (H3=past HT not compliant)	8.2	0.01	8.18	Units		(0-20)	20	0.37
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 809871 - Specific Conductance by SM2510B						Analysis Date: 12/17/2014			
DUP1_201412120269	Specific Conductance	250	2	248	umho/cm		(0-20)	20	0.12
DUP1_201412160216	Specific Conductance	330	2	328	umho/cm		(0-20)	20	0.15
LCS1	Specific Conductance		1000	1000	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1010	umho/cm	101	(95-105)	20	1
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.70	umho/cm	104	(50-150)		
QC Ref# 809921 - Total Suspended Solids (TSS) by SM 2540D						Analysis Date: 12/17/2014			
DUP_201412110751	Total Suspended Solids (TSS)	90	10	92.0	mg/L		(0-10)	10	2.2
DUP_201412110786	Total Suspended Solids (TSS)	250	10	236	mg/L		(0-10)	10	4.1
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	172	mg/L	98	(71-107)	20	1.2
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 809947 - Haloacetic Acids by SM 6251B						Analysis Date: 12/17/2014			
CCCH	1,2,3-Trichloropropane (I)			98.9	%	99	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			100	%	100	(80-130)		
DUP1_201412120269	1,2,3-Trichloropropane (I)			100	%	101	(80-120)		
DUP2_201412110863	1,2,3-Trichloropropane (I)			98.6	%	99	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			99.9	%	100	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS1_201412120253	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS2_201412110862	1,2,3-Trichloropropane (I)			97.7	%	98	(80-120)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	2,3-Dibromopropionic acid (S)			94.5	%	95	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP1_201412120269	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
DUP2_201412110863	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			98.6	%	99	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			92.8	%	93	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			89.5	%	90	(70-130)		
MS1_201412120253	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
MS2_201412110862	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
CCCH	Bromochloroacetic acid		32	31.0	ug/L	97	(85-115)		
CCCM	Bromochloroacetic acid		20	19.5	ug/L	97	(85-115)		
DUP1_201412120269	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Bromochloroacetic acid	8.5		9.28	ug/L		(0-20)	20	9.0
LCS3	Bromochloroacetic acid		8.0	7.63	ug/L	95	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	0.956	ug/L	96	(50-150)		
MS1_201412120253	Bromochloroacetic acid	ND	20	20.0	ug/L	100	(84-123)		
MS2_201412110862	Bromochloroacetic acid	8.7	32	41.7	ug/L	103	(84-123)		
CCCH	Dibromoacetic acid		32	30.2	ug/L	95	(85-115)		
CCCM	Dibromoacetic acid		20	19.4	ug/L	97	(85-115)		
DUP1_201412120269	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dibromoacetic acid	14		15.0	ug/L		(0-20)	20	10
LCS3	Dibromoacetic acid		8.0	7.87	ug/L	98	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.939	ug/L	94	(50-150)		
MS1_201412120253	Dibromoacetic acid	ND	20	19.8	ug/L	99	(84-122)		
MS2_201412110862	Dibromoacetic acid	14	32	44.2	ug/L	94	(84-122)		
CCCH	Dichloroacetic acid		32	30.8	ug/L	96	(85-115)		
CCCM	Dichloroacetic acid		20	19.6	ug/L	98	(85-115)		
DUP1_201412120269	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dichloroacetic acid	3.5		3.81	ug/L		(0-20)	20	7.6
LCS3	Dichloroacetic acid		8.0	7.52	ug/L	94	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	0.978	ug/L	98	(50-150)		
MS1_201412120253	Dichloroacetic acid	ND	20	20.3	ug/L	102	(79-123)		
MS2_201412110862	Dichloroacetic acid	3.4	32	36.7	ug/L	104	(79-123)		
CCCH	Monobromoacetic acid		32	30.4	ug/L	95	(85-115)		
CCCM	Monobromoacetic acid		20	18.2	ug/L	91	(85-115)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP1_201412120269	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monobromoacetic acid	1.8		1.78	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	7.09	ug/L	89	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	0.736	ug/L	74	(50-150)		
MS1_201412120253	Monobromoacetic acid	ND	20	21.1	ug/L	105	(81-122)		
MS2_201412110862	Monobromoacetic acid	1.8	32	36.8	ug/L	109	(81-122)		
CCCH	Monochloroacetic acid		32	30.2	ug/L	94	(85-115)		
CCCM	Monochloroacetic acid		20	19.2	ug/L	96	(85-115)		
DUP1_201412120269	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	7.72	ug/L	97	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.94	ug/L	97	(50-150)		
MS1_201412120253	Monochloroacetic acid	ND	20	20.3	ug/L	101	(72-126)		
MS2_201412110862	Monochloroacetic acid	ND	32	29.5	ug/L	92	(72-126)		
CCCH	Trichloroacetic acid		32	31.7	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	19.3	ug/L	97	(85-115)		
DUP1_201412120269	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Trichloroacetic acid	1.5		1.63	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	6.88	ug/L	86	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.839	ug/L	84	(50-150)		
MS1_201412120253	Trichloroacetic acid	ND	20	20.9	ug/L	104	(82-124)		
MS2_201412110862	Trichloroacetic acid	1.6	32	36.1	ug/L	108	(82-124)		

QC Ref# 809954 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 12/18/2014

DUP_201412110759	Total Dissolved Solid (TDS)	890		888	mg/L		(0-20)	20	0.23
DUP_201412130005	Total Dissolved Solid (TDS)	260		256	mg/L		(0-20)	20	1.6
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	718	mg/L	103	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 809995 - Total Kjeldahl Nitrogen by EPA 351.2

Analysis Date: 12/18/2014

LCS1	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.14	mg/L	103	(90-110)	20	0.72
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.248	mg/L	124	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412050338	Kjeldahl Nitrogen	ND	4.0	4.06	mg/L	97	(90-110)		
MS_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.40	mg/L	102	(90-110)		
MSD_201412050338	Kjeldahl Nitrogen	ND	4.0	4.27	mg/L	102	(90-110)	10	5.0
MSD_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.32	mg/L	100	(90-110)	10	1.8
QC Ref# 810034 - Volatile Organics by EPA 624 by EPA 624						Analysis Date: 12/17/2014			
LCS1	1,1,1-Trichloroethane		20	23.1	ug/L	115	(79-121)		
LCS2	1,1,1-Trichloroethane		20	21.8	ug/L	109	(79-121)	20	5.3
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	1,1,1-Trichloroethane	ND	10	11.1	ug/L	111	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	22.6	ug/L	113	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	20.8	ug/L	104	(77-126)	20	8.3
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412160194	1,1,2,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(79-130)		
LCS1	1,1,2-Trichloroethane		20	22.9	ug/L	114	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.1	ug/L	106	(79-116)	20	8.2
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(76-129)		
LCS1	1,1-Dichloroethane		20	23.2	ug/L	116	(77-129)		
LCS2	1,1-Dichloroethane		20	21.5	ug/L	108	(77-129)	20	7.6
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	1,1-Dichloroethane	ND	10	11.6	ug/L	116	(70-146)		
LCS1	1,1-Dichloroethylene		20	23.9	ug/L	119	(77-139)		
LCS2	1,1-Dichloroethylene		20	22.3	ug/L	111	(77-139)	20	6.9
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	1,1-Dichloroethylene	ND	10	12.3	ug/L	123	(75-134)		
LCS1	1,2-Dichloroethane		20	24.0	ug/L	120	(81-122)		
LCS2	1,2-Dichloroethane		20	21.7	ug/L	108	(81-122)	20	10
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	1,2-Dichloroethane	ND	10	11.4	ug/L	114	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
MS_201412160194	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	1,2-Dichloropropane		20	22.9	ug/L	115	(77-118)		
LCS2	1,2-Dichloropropane		20	21.1	ug/L	105	(77-118)	20	8.2
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.580	ug/L	116	(50-150)		
MS_201412160194	1,2-Dichloropropane	ND	10	11.3	ug/L	113	(73-132)		
LCS1	2-Butanone (MEK)		200	171	ug/L	85	(65-122)		
LCS2	2-Butanone (MEK)		200	145	ug/L	73	(65-122)	20	17
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.52	ug/L	110	(50-150)		
MS_201412160194	2-Butanone (MEK)	5.6	100	116	ug/L	111	(59-129)		
LCS1	2-Hexanone		200	182	ug/L	91	(72-128)		
LCS2	2-Hexanone		200	159	ug/L	80	(72-128)	20	14
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.74	ug/L	95	(50-150)		
MS_201412160194	2-Hexanone	ND	100	117	ug/L	117	(71-134)		
LCS1	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			94.8	%	95	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			99.0	%	99	(70-130)		
MRLW	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MS_201412160194	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	180	ug/L	90	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	158	ug/L	79	(76-130)	20	13
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.24	ug/L	105	(50-150)		
MS_201412160194	4-Methyl-2-Pentanone (MIBK)	ND	100	121	ug/L	121	(75-136)		
LCS1	Acetone		200	181	ug/L	91	(47-117)		
LCS2	Acetone		200	156	ug/L	78	(47-117)	20	15
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	5.67	ug/L	113	(50-150)		
MS_201412160194	Acetone	ND	100	115	ug/L	115	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	22.2	ug/L	111	(60-156)		
LCS2	Benzene		20	20.6	ug/L	103	(60-156)	20	7.5

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Benzene	ND	10	10.8	ug/L	108	(76-133)		
LCS1	Bromodichloromethane		20	23.9	ug/L	120	(77-113)		
LCS2	Bromodichloromethane		20	22.0	ug/L	110	(77-113)	20	8.3
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412160194	Bromodichloromethane	ND	10	11.0	ug/L	110	(77-130)		
LCS1	Bromoform		20	22.2	ug/L	111	(54-134)		
LCS2	Bromoform		20	19.6	ug/L	98	(54-134)	20	12
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.250	ug/L	50	(50-150)		
MS_201412160194	Bromoform	ND	10	7.59	ug/L	76	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	25.6	ug/L	128	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	24.3	ug/L	121	(67-144)	20	5.2
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	Bromomethane (Methyl Bromide)	ND	10	10.3	ug/L	103	(55-147)		
LCS1	Carbon disulfide		20	15.1	ug/L	75	(63-131)		
LCS2	Carbon disulfide		20	13.9	ug/L	70	(63-131)	20	8.3
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.420	ug/L	84	(50-150)		
MS_201412160194	Carbon disulfide	ND	10	11.5	ug/L	115	(65-155)		
LCS1	Carbon Tetrachloride		20	22.7	ug/L	113	(73-127)		
LCS2	Carbon Tetrachloride		20	21.9	ug/L	110	(73-127)	20	3.6
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.450	ug/L	90	(50-150)		
MS_201412160194	Carbon Tetrachloride	ND	10	11.7	ug/L	117	(71-151)		
LCS1	Chlorobenzene		20	21.9	ug/L	110	(57-166)		
LCS2	Chlorobenzene		20	20.8	ug/L	104	(57-166)	20	4.7
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.420	ug/L	84	(50-150)		
MS_201412160194	Chlorobenzene	ND	10	10.6	ug/L	106	(77-132)		
LCS1	Chlorodibromomethane		20	22.8	ug/L	114	(77-113)		
LCS2	Chlorodibromomethane		20	22.3	ug/L	111	(77-113)	20	2.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.370	ug/L	74	(50-150)		
MS_201412160194	Chlorodibromomethane	ND	10	9.61	ug/L	96	(68-136)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chloroethane		20	22.3	ug/L	112	(70-133)		
LCS2	Chloroethane		20	21.9	ug/L	109	(70-133)	20	1.8
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Chloroethane	ND	10	10.6	ug/L	106	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	22.4	ug/L	112	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	20.5	ug/L	102	(78-117)	20	8.9
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Chloroform (Trichloromethane)	ND	10	11.0	ug/L	110	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	22.9	ug/L	114	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	22.1	ug/L	111	(78-134)	20	3.6
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Chloromethane(Methyl Chloride)	ND	10	11.3	ug/L	113	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	22.2	ug/L	111	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	21.0	ug/L	105	(80-114)	20	5.6
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412160194	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	24.5	ug/L	122	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	22.5	ug/L	113	(68-123)	20	8.5
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201412160194	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	107	(65-120)		
LCS1	Dichlorodifluoromethane		20	30.8	ug/L	154	(46-165)		
LCS2	Dichlorodifluoromethane		20	29.2	ug/L	146	(46-165)	20	5.3
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412160194	Dichlorodifluoromethane	ND	10	14.6	ug/L	146	(30-169)		
LCS1	Dichloromethane		20	23.0	ug/L	115	(77-121)		
LCS2	Dichloromethane		20	21.8	ug/L	109	(77-121)	20	5.4
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412160194	Dichloromethane	ND	10	11.2	ug/L	112	(75-132)		
LCS1	Ethyl benzene		20	23.8	ug/L	119	(79-122)		
LCS2	Ethyl benzene		20	22.4	ug/L	112	(79-122)	20	5.6
MBLK	Ethyl benzene			<0.25	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	Ethyl benzene	ND	10	11.2	ug/L	112	(68-146)		
LCS1	m,p-Xylenes		40	46.0	ug/L	115	(82-123)		
LCS2	m,p-Xylenes		40	44.1	ug/L	110	(82-123)	20	4.2
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.830	ug/L	83	(50-150)		
MRLW	m,p-Xylenes		0.5	0.390	ug/L	78	(50-150)		
MS_201412160194	m,p-Xylenes	ND	20	22.0	ug/L	110	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	21.9	ug/L	109	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.7	ug/L	104	(76-124)	20	5.6
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.430	ug/L	86	(50-150)		
MS_201412160194	m-Dichlorobenzene (1,3-DCB)	ND	10	10.2	ug/L	102	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	15.1	ug/L	75	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	14.3	ug/L	72	(70-130)	20	5.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412160194	Methyl Tert-butyl ether (MTBE)	ND	10	10.3	ug/L	103	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	21.6	ug/L	108	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.3	ug/L	101	(79-118)	20	6.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.490	ug/L	98	(50-150)		
MS_201412160194	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(80-125)		
LCS1	o-Xylene		20	22.2	ug/L	111	(79-120)		
LCS2	o-Xylene		20	20.8	ug/L	104	(79-120)	20	7.0
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.400	ug/L	80	(50-150)		
MS_201412160194	o-Xylene	ND	10	10.3	ug/L	103	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	21.6	ug/L	108	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	4.7
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(71-145)		
LCS1	Styrene		20	20.4	ug/L	102	(77-125)		
LCS2	Styrene		20	18.7	ug/L	94	(77-125)	20	8.7
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.650	ug/L	130	(50-150)		
MS_201412160194	Styrene	ND	10	7.18	ug/L	72	(66-142)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Tetrachloroethylene (PCE)		20	22.2	ug/L	111	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	21.0	ug/L	105	(79-122)	20	5.6
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412160194	Tetrachloroethylene (PCE)	ND	10	11.2	ug/L	112	(72-146)		
LCS1	Tetrahydrofuran		200	182	ug/L	91	(67-130)		
LCS2	Tetrahydrofuran		200	157	ug/L	78	(67-130)	20	15
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	4.25	ug/L	85	(50-150)		
MS_201412160194	Tetrahydrofuran	ND	100	117	ug/L	117	(68-134)		
LCS1	Toluene		20	22.6	ug/L	113	(80-118)		
LCS2	Toluene		20	21.1	ug/L	106	(80-118)	20	6.9
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
MS_201412160194	Toluene	ND	10	11.0	ug/L	110	(66-143)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			99.6	%	100	(70-130)		
MBLK	Toluene-d8 (S)			96.6	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.4	%	99	(70-130)		
MRLW	Toluene-d8 (S)			93.8	%	94	(70-130)		
MS_201412160194	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	22.9	ug/L	114	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	21.4	ug/L	107	(82-122)	20	6.8
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.370	ug/L	74	(50-150)		
MS_201412160194	trans-1,2-Dichloroethylene	ND	10	11.4	ug/L	114	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	24.7	ug/L	123	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	23.1	ug/L	116	(64-126)	20	6.7
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201412160194	trans-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(61-127)		
LCS1	Trichloroethylene (TCE)		20	24.2	ug/L	121	(78-119)		
LCS2	Trichloroethylene (TCE)		20	21.7	ug/L	109	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Trichloroethylene (TCE)	ND	10	12.0	ug/L	119	(71-139)		
LCS1	Trichlorofluoromethane		20	21.3	ug/L	106	(70-145)		
LCS2	Trichlorofluoromethane		20	21.3	ug/L	106	(70-145)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412160194	Trichlorofluoromethane	ND	10	11.7	ug/L	117	(63-161)		
LCS1	Vinyl Acetate		100	108	ug/L	108	(72-136)		
LCS2	Vinyl Acetate		100	94.6	ug/L	95	(72-136)	20	13
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	3.31	ug/L	132	(50-150)		
MS_201412160194	Vinyl Acetate	ND	50	50.2	ug/L	100	(55-146)		
LCS1	Vinyl chloride (VC)		20	23.2	ug/L	116	(66-140)		
LCS2	Vinyl chloride (VC)		20	23.1	ug/L	115	(66-140)	20	0.43
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.630	ug/L	126	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.210	ug/L	70	(50-150)		
MS_201412160194	Vinyl chloride (VC)	ND	10	13.5	ug/L	135	(56-159)		

QC Ref# 810038 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 12/18/2014

LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			116	%	116	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
LCS1	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			95.2	%	95	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	Bromodichloromethane		5.0	5.17	ug/L	103	(70-130)		
LCS2	Bromodichloromethane		5.0	5.22	ug/L	104	(70-130)	20	0.96
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	4.24	ug/L	85	(70-130)		
LCS2	Bromoform		5.0	4.50	ug/L	90	(70-130)	20	6.0
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.13	ug/L	103	(70-130)	20	7.3
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.91	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.51	ug/L	110	(70-130)	20	12
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			96.6	%	97	(70-130)		

QC Ref# 810496 - ICP Metals by EPA 200.7

Analysis Date: 12/19/2014

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Calcium Total ICAP		100	97.1	mg/L	97	(85-115)		
LCS2	Calcium Total ICAP		100	99.9	mg/L	100	(85-115)	20	2.8
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.984	mg/L	98	(50-150)		
MS_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)		
MS2_201412170727	Calcium Total ICAP	60	100	156	mg/L	96	(70-130)		
MSD_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)	20	0.0
MSD2_201412170727	Calcium Total ICAP	60	100	163	mg/L	102	(70-130)	20	4.4
LCS1	Magnesium Total ICAP		40	41.1	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		40	41.5	mg/L	104	(85-115)	20	0.97
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201412170726	Magnesium Total ICAP	11	40	52.9	mg/L	105	(70-130)		
MS2_201412170727	Magnesium Total ICAP	13	40	53.6	mg/L	102	(70-130)		
MSD_201412170726	Magnesium Total ICAP	11	40	52.4	mg/L	104	(70-130)	20	0.95
MSD2_201412170727	Magnesium Total ICAP	13	40	56.2	mg/L	108	(70-130)	20	4.7
LCS1	Sodium Total ICAP		100	100	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		100	101	mg/L	101	(85-115)	20	1
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.08	mg/L	108	(50-150)		
MS_201412170726	Sodium Total ICAP	72	100	177	mg/L	104	(70-130)		
MS2_201412170727	Sodium Total ICAP	73	100	169	mg/L	96	(70-130)		
MSD_201412170726	Sodium Total ICAP	72	100	174	mg/L	102	(70-130)	20	1.7
MSD2_201412170727	Sodium Total ICAP	73	100	174	mg/L	102	(70-130)	20	2.9

QC Ref# 810768 - ICPMS Metals by EPA 200.8

Analysis Date: 12/22/2014

LCS1	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412170788	Antimony Total ICAP/MS	ND	50	50.2	ug/L	99	(70-130)		
MS2_201412170794	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)		
MSD_201412170788	Antimony Total ICAP/MS	ND	50	49.6	ug/L	98	(70-130)	20	1.2
MSD2_201412170794	Antimony Total ICAP/MS	ND	50	48.0	ug/L	96	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.940	ug/L	94	(50-150)		
MS_201412170788	Arsenic Total ICAP/MS	1.4	20	21.5	ug/L	101	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.5	ug/L	103	(70-130)		
MSD_201412170788	Arsenic Total ICAP/MS	1.4	20	21.0	ug/L	98	(70-130)	20	2.4
MSD2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.0	ug/L	101	(70-130)	20	2.3
LCS1	Barium Total ICAP/MS		100	97.2	ug/L	97	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.6	ug/L	98	(85-115)	20	0.41
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	97	(50-150)		
MS_201412170788	Barium Total ICAP/MS	59	100	153	ug/L	94	(70-130)		
MS2_201412170794	Barium Total ICAP/MS	59	100	156	ug/L	97	(70-130)		
MSD_201412170788	Barium Total ICAP/MS	59	100	155	ug/L	96	(70-130)	20	1.3
MSD2_201412170794	Barium Total ICAP/MS	59	100	150	ug/L	91	(70-130)	20	3.9
LCS1	Beryllium Total ICAP/MS		5.0	4.77	ug/L	95	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.84	ug/L	97	(85-115)	20	1.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.931	ug/L	93	(50-150)		
MS_201412170788	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)		
MS2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.93	ug/L	99	(70-130)		
MSD_201412170788	Beryllium Total ICAP/MS	ND	5.0	5.33	ug/L	106	(70-130)	20	7.2
MSD2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.98	ug/L	100	(70-130)	20	1.6
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201412170788	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MS2_201412170794	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201412170788	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.99
MSD2_201412170794	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	3.0
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.0	ug/L	97	(85-115)	20	0.92
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.31	ug/L	131	(50-150)		
MS_201412170788	Chromium Total ICAP/MS	6.9	100	103	ug/L	96	(70-130)		
MS2_201412170794	Chromium Total ICAP/MS	4.2	100	100	ug/L	96	(70-130)		
MSD_201412170788	Chromium Total ICAP/MS	6.9	100	101	ug/L	94	(70-130)	20	2.0
MSD2_201412170794	Chromium Total ICAP/MS	4.2	100	97.6	ug/L	93	(70-130)	20	2.4
LCS1	Cobalt Total ICAP/MS		100	95.8	ug/L	96	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	96.2	ug/L	96	(85-115)	20	0.42
MBLK	Cobalt Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412170788	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		
MS2_201412170794	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		
MSD_201412170788	Cobalt Total ICAP/MS	ND	100	92.6	ug/L	92	(70-130)	20	2.0
MSD2_201412170794	Cobalt Total ICAP/MS	ND	100	92.7	ug/L	93	(70-130)	20	2.5
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412170788	Copper Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)		
MS2_201412170794	Copper Total ICAP/MS	ND	100	95.9	ug/L	94	(70-130)		
MSD_201412170788	Copper Total ICAP/MS	ND	100	97.0	ug/L	96	(70-130)	20	0.31
MSD2_201412170794	Copper Total ICAP/MS	ND	100	94.9	ug/L	93	(70-130)	20	1.1
LCS1	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.510	ug/L	102	(50-150)		
MS_201412170788	Lead Total ICAP/MS	ND	20	20.8	ug/L	103	(70-130)		
MS2_201412170794	Lead Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201412170788	Lead Total ICAP/MS	ND	20	20.6	ug/L	102	(70-130)	20	0.97
MSD2_201412170794	Lead Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	2.5
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	108	ug/L	108	(85-115)	20	0.93
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	104	(50-150)		
MS_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)		
MS2_201412170794	Molybdenum Total ICAP/MS	4	100	115	ug/L	111	(70-130)		
MSD_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)	20	0.0
MSD2_201412170794	Molybdenum Total ICAP/MS	4	100	114	ug/L	110	(70-130)	20	0.87
LCS1	Nickel Total ICAP/MS		50	51.7	ug/L	103	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.2	ug/L	102	(85-115)	20	0.97
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.12	ug/L	102	(50-150)		
MS_201412170788	Nickel Total ICAP/MS	8	50	57.1	ug/L	98	(70-130)		
MS2_201412170794	Nickel Total ICAP/MS	ND	50	53.3	ug/L	99	(70-130)		
MSD_201412170788	Nickel Total ICAP/MS	8	50	56.1	ug/L	96	(70-130)	20	1.8
MSD2_201412170794	Nickel Total ICAP/MS	ND	50	52.6	ug/L	97	(70-130)	20	0.76
LCS1	Selenium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.50
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201412170788	Selenium Total ICAP/MS	ND	20	20.8	ug/L	99	(70-130)		
MS2_201412170794	Selenium Total ICAP/MS	ND	20	20.6	ug/L	99	(70-130)		
MSD_201412170788	Selenium Total ICAP/MS	ND	20	19.7	ug/L	94	(70-130)	20	5.4
MSD2_201412170794	Selenium Total ICAP/MS	ND	20	20.2	ug/L	96	(70-130)	20	3.9
LCS1	Silver Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.3	ug/L	97	(85-115)	20	0.21
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.484	ug/L	97	(50-150)		
MS_201412170788	Silver Total ICAP/MS	ND	50	46.0	ug/L	92	(70-130)		
MS2_201412170794	Silver Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD_201412170788	Silver Total ICAP/MS	ND	50	45.7	ug/L	91	(70-130)	20	0.65
MSD2_201412170794	Silver Total ICAP/MS	ND	50	45.2	ug/L	90	(70-130)	20	1.8
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	0.51
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.955	ug/L	96	(50-150)		
MS_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MS2_201412170794	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	0.50
MSD2_201412170794	Thallium Total ICAP/MS	ND	20	19.5	ug/L	98	(70-130)	20	2.5
LCS1	Vanadium Total ICAP/MS		100	94.8	ug/L	95	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	95.4	ug/L	95	(85-115)	20	0.63
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.74	ug/L	91	(50-150)		
MS_201412170788	Vanadium Total ICAP/MS	ND	100	98.9	ug/L	97	(70-130)		
MS2_201412170794	Vanadium Total ICAP/MS	5	100	100	ug/L	95	(70-130)		
MSD_201412170788	Vanadium Total ICAP/MS	ND	100	97.8	ug/L	96	(70-130)	20	1.1
MSD2_201412170794	Vanadium Total ICAP/MS	5	100	99.0	ug/L	94	(70-130)	20	0.90
LCS1	Zinc Total ICAP/MS		100	114	ug/L	114	(85-115)		
LCS2	Zinc Total ICAP/MS		100	111	ug/L	111	(85-115)	20	2.7
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	27.5	ug/L	138	(50-150)		
MS_201412170788	Zinc Total ICAP/MS	ND	100	111	ug/L	98	(70-130)		
MS2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)		
MSD_201412170788	Zinc Total ICAP/MS	ND	100	108	ug/L	95	(70-130)	20	2.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)	20	3.9
QC Ref# 810964 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 12/22/2014			
LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.519	mg/L	104	(90-110)	20	0.77
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0536	mg/L	107	(53-118)		
MS_201412160002	Ammonia Nitrogen	ND	0.5	0.561	mg/L	106	(90-110)		
MS_201412160019	Ammonia Nitrogen	ND	0.5	0.569	mg/L	113	(90-110)		
MSD_201412160002	Ammonia Nitrogen	ND	0.5	0.571	mg/L	108	(90-110)	20	1.8
MSD_201412160019	Ammonia Nitrogen	ND	0.5	0.546	mg/L	108	(90-110)	20	4.1
QC Ref# 810968 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 12/23/2014			
DUP_201412160249	Alkalinity in CaCO3 units	18000		17800	mg/L		(0-20)	20	1.0
LCS1	Alkalinity in CaCO3 units		100	105	mg/L	105	(90-110)		
LCS2	Alkalinity in CaCO3 units			102	mg/L				
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.80	mg/L	140	(50-150)		
QC Ref# 810985 - Total Organic Halides by SW9020/SM5320						Analysis Date: 12/22/2014			
LCS1	Total Organic Halides Rep 1		50	48.5	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	204	ug/L	102	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRLHI	Total Organic Halides Rep 1			7.51	ug/L	0			
MS_201412090527	Total Organic Halides Rep 1	27	50	84.9	ug/L	117	(90-110)		
MSD_201412090527	Total Organic Halides Rep 1	27	50	54.1	ug/L	55	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.04	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.9	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	196	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRLHI	Total Organic Halides Rep 2			7.37	ug/L	0			
MS_201412090527	Total Organic Halides Rep 2	25	50	84.9	ug/L	119	(90-110)		
MSD_201412090527	Total Organic Halides Rep 2	25	50	54.1	ug/L	58	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		
QC Ref# 811253 - ICPMS Metals by EPA 200.8						Analysis Date: 12/29/2014			
LCS1	Silver dissolved ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.485	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412230354	Silver dissolved ICAP/MS	ND	50	40.4	ug/L	81	(70-130)		
MS2_201412230370	Silver dissolved ICAP/MS	ND	50	18.2	ug/L	<u>36</u>	(70-130)		
MSD_201412230354	Silver dissolved ICAP/MS	ND	50	17.5	ug/L	<u>35</u>	(70-130)	20	<u>79</u>
MSD2_201412230370	Silver dissolved ICAP/MS	ND	50	17.4	ug/L	<u>35</u>	(70-130)	20	4.5
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MRL_CHK	Silver Total ICAP/MS		0.5	0.485	ug/L	97	(50-150)		

QC Ref# 811781 - ICPMS Metals by EPA 200.8

Analysis Date: 12/30/2014

LCS1	Antimony dissolved ICAP/MS		50	45.6	ug/L	91	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	45.9	ug/L	92	(85-115)	20	0.66
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	0.940	ug/L	94	(50-150)		
MS_201412240375	Antimony dissolved ICAP/MS	ND	50	40.4	ug/L	80	(70-130)		
MSD_201412240375	Antimony dissolved ICAP/MS	ND	50	42.5	ug/L	84	(70-130)	20	5.1
LCS1	Antimony Total ICAP/MS		50	45.6	ug/L	91	(85-115)		
LCS2	Antimony Total ICAP/MS		50	45.9	ug/L	92	(85-115)	20	0.66
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	0.940	ug/L	94	(50-150)		
MS_201412240375	Antimony Total ICAP/MS	ND	50	40.4	ug/L	80	(70-130)		
MS2_201412160118	Antimony Total ICAP/MS	ND	50	38.5	ug/L	77	(70-130)		
MSD_201412240375	Antimony Total ICAP/MS	ND	50	42.5	ug/L	84	(70-130)	20	5.1
MSD2_201412160118	Antimony Total ICAP/MS	ND	50	40.2	ug/L	80	(70-130)	20	4.3
LCS1	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.5
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	0.995	ug/L	100	(50-150)		
MS_201412240375	Arsenic dissolved ICAP/MS	34	20	53.5	ug/L	98	(70-130)		
MSD_201412240375	Arsenic dissolved ICAP/MS	34	20	54.9	ug/L	105	(70-130)	20	2.6
LCS1	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1.5
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.995	ug/L	100	(50-150)		
MS_201412240375	Arsenic Total ICAP/MS	34	20	53.5	ug/L	98	(70-130)		
MS2_201412160118	Arsenic Total ICAP/MS	ND	20	56.7	ug/L	106	(70-130)		
MSD_201412240375	Arsenic Total ICAP/MS	34	20	54.9	ug/L	105	(70-130)	20	2.6
MSD2_201412160118	Arsenic Total ICAP/MS	ND	20	56.8	ug/L	107	(70-130)	20	0.18
LCS1	Barium dissolved ICAP/MS		100	99.1	ug/L	99	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	0.90
MBLK	Barium dissolved ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Barium dissolved ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201412240375	Barium dissolved ICAP/MS	14	100	105	ug/L	91	(70-130)		
MSD_201412240375	Barium dissolved ICAP/MS	14	100	110	ug/L	96	(70-130)	20	4.7
LCS1	Barium Total ICAP/MS		100	99.1	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.90
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_201412240375	Barium Total ICAP/MS	14	100	105	ug/L	91	(70-130)		
MS2_201412160118	Barium Total ICAP/MS	110	100	170	ug/L	<u>131</u>	(70-130)		
MSD_201412240375	Barium Total ICAP/MS	14	100	110	ug/L	96	(70-130)	20	4.7
MSD2_201412160118	Barium Total ICAP/MS	110	100	174	ug/L	91	(70-130)	20	2.3
LCS1	Beryllium dissolved ICAP/MS		5.0	4.54	ug/L	91	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	4.71	ug/L	94	(85-115)	20	3.7
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	0.966	ug/L	97	(50-150)		
MS_201412240375	Beryllium dissolved ICAP/MS	ND	5.0	5.02	ug/L	100	(70-130)		
MSD_201412240375	Beryllium dissolved ICAP/MS	ND	5.0	5.11	ug/L	101	(70-130)	20	1.8
LCS1	Beryllium Total ICAP/MS		5.0	4.54	ug/L	91	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.71	ug/L	94	(85-115)	20	3.7
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.966	ug/L	97	(50-150)		
MS_201412240375	Beryllium Total ICAP/MS	ND	5.0	5.02	ug/L	100	(70-130)		
MS2_201412160118	Beryllium Total ICAP/MS	ND	5.0	4.29	ug/L	86	(70-130)		
MSD_201412240375	Beryllium Total ICAP/MS	ND	5.0	5.11	ug/L	101	(70-130)	20	1.8
MSD2_201412160118	Beryllium Total ICAP/MS	ND	5.0	4.51	ug/L	90	(70-130)	20	5.0
LCS1	Cadmium dissolved ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	19.9	ug/L	100	(85-115)	20	1.0
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.515	ug/L	103	(50-150)		
MS_201412240375	Cadmium dissolved ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MSD_201412240375	Cadmium dissolved ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	4.3
LCS1	Cadmium Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.9	ug/L	100	(85-115)	20	1.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.515	ug/L	103	(50-150)		
MS_201412240375	Cadmium Total ICAP/MS	ND	20	18.1	ug/L	90	(70-130)		
MS2_201412160118	Cadmium Total ICAP/MS	ND	20	15.0	ug/L	75	(70-130)		
MSD_201412240375	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	4.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201412160118	Cadmium Total ICAP/MS	ND	20	15.8	ug/L	79	(70-130)	20	5.2
LCS1	Chromium dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	0.98
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201412240375	Chromium dissolved ICAP/MS	ND	100	96.0	ug/L	96	(70-130)		
MSD_201412240375	Chromium dissolved ICAP/MS	ND	100	99.6	ug/L	99	(70-130)	20	3.7
LCS1	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.98
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201412240375	Chromium Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)		
MS2_201412160118	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201412240375	Chromium Total ICAP/MS	ND	100	99.6	ug/L	99	(70-130)	20	3.7
MSD2_201412160118	Chromium Total ICAP/MS	ND	100	108	ug/L	108	(70-130)	20	3.8
LCS1	Cobalt dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412240375	Cobalt dissolved ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201412240375	Cobalt dissolved ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	4.5
LCS1	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412240375	Cobalt Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MS2_201412160118	Cobalt Total ICAP/MS	2.2	100	94.4	ug/L	92	(70-130)		
MSD_201412240375	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	4.5
MSD2_201412160118	Cobalt Total ICAP/MS	2.2	100	96.9	ug/L	95	(70-130)	20	2.6
LCS1	Copper dissolved ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	0.0
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	3.00	ug/L	150	(50-150)		
MS_201412240375	Copper dissolved ICAP/MS	2.3	100	94.6	ug/L	92	(70-130)		
MSD_201412240375	Copper dissolved ICAP/MS	2.3	100	98.5	ug/L	96	(70-130)	20	4.0
LCS1	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.0
MBLK	Copper Total ICAP/MS			<2	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Copper Total ICAP/MS		2.0	3.00	ug/L	150	(50-150)		
MS_201412240375	Copper Total ICAP/MS	2.3	100	94.6	ug/L	92	(70-130)		
MS2_201412160118	Copper Total ICAP/MS	23	100	81.0	ug/L	81	(70-130)		
MSD_201412240375	Copper Total ICAP/MS	2.3	100	98.5	ug/L	96	(70-130)	20	4.0
MSD2_201412160118	Copper Total ICAP/MS	23	100	83.9	ug/L	84	(70-130)	20	3.5
LCS1	Lead dissolved ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.1	ug/L	95	(85-115)	20	0.52
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.474	ug/L	95	(50-150)		
MS_201412240375	Lead dissolved ICAP/MS	ND	20	18.1	ug/L	89	(70-130)		
MSD_201412240375	Lead dissolved ICAP/MS	ND	20	18.9	ug/L	93	(70-130)	20	4.3
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.1	ug/L	95	(85-115)	20	0.52
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.474	ug/L	95	(50-150)		
MS_201412240375	Lead Total ICAP/MS	ND	20	18.1	ug/L	89	(70-130)		
MS2_201412160118	Lead Total ICAP/MS	ND	20	15.6	ug/L	78	(70-130)		
MSD_201412240375	Lead Total ICAP/MS	ND	20	18.9	ug/L	93	(70-130)	20	4.3
MSD2_201412160118	Lead Total ICAP/MS	ND	20	16.1	ug/L	80	(70-130)	20	3.1
LCS1	Molybdenum dissolved ICAP/MS		100	97.3	ug/L	97	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	97.9	ug/L	98	(85-115)	20	0.62
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.91	ug/L	96	(50-150)		
MS_201412240375	Molybdenum dissolved ICAP/MS	44	100	130	ug/L	86	(70-130)		
MSD_201412240375	Molybdenum dissolved ICAP/MS	44	100	135	ug/L	91	(70-130)	20	3.8
LCS1	Molybdenum Total ICAP/MS		100	97.3	ug/L	97	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	97.9	ug/L	98	(85-115)	20	0.62
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.91	ug/L	96	(50-150)		
MS_201412240375	Molybdenum Total ICAP/MS	44	100	130	ug/L	86	(70-130)		
MS2_201412160118	Molybdenum Total ICAP/MS	3.9	100	94.5	ug/L	91	(70-130)		
MSD_201412240375	Molybdenum Total ICAP/MS	44	100	135	ug/L	91	(70-130)	20	3.8
MSD2_201412160118	Molybdenum Total ICAP/MS	3.9	100	99.5	ug/L	96	(70-130)	20	5.2
LCS1	Nickel dissolved ICAP/MS		50	49.7	ug/L	99	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	49.9	ug/L	100	(85-115)	20	0.40
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	5.09	ug/L	102	(50-150)		
MS_201412240375	Nickel dissolved ICAP/MS	ND	50	46.7	ug/L	91	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412240375	Nickel dissolved ICAP/MS	ND	50	49.1	ug/L	96	(70-130)	20	5.0
LCS1	Nickel Total ICAP/MS		50	49.7	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	0.40
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.09	ug/L	102	(50-150)		
MS_201412240375	Nickel Total ICAP/MS	ND	50	46.7	ug/L	91	(70-130)		
MS2_201412160118	Nickel Total ICAP/MS	ND	50	63.3	ug/L	127	(70-130)		
MSD_201412240375	Nickel Total ICAP/MS	ND	50	49.1	ug/L	96	(70-130)	20	5.0
MSD2_201412160118	Nickel Total ICAP/MS	ND	50	64.6	ug/L	129	(70-130)	20	2.0
LCS1	Selenium dissolved ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)	20	2.0
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	4.82	ug/L	96	(50-150)		
MS_201412240375	Selenium dissolved ICAP/MS	ND	20	21.7	ug/L	97	(70-130)		
MSD_201412240375	Selenium dissolved ICAP/MS	ND	20	23.0	ug/L	103	(70-130)	20	5.8
LCS1	Selenium Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	2.0
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.82	ug/L	96	(50-150)		
MS_201412240375	Selenium Total ICAP/MS	ND	20	21.7	ug/L	97	(70-130)		
MS2_201412160118	Selenium Total ICAP/MS	ND	20	146	ug/L	732	(70-130)		
MSD_201412240375	Selenium Total ICAP/MS	ND	20	23.0	ug/L	103	(70-130)	20	5.8
MSD2_201412160118	Selenium Total ICAP/MS	ND	20	153	ug/L	767	(70-130)	20	4.7
LCS1	Thallium dissolved ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.51
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	0.981	ug/L	98	(50-150)		
MS_201412240375	Thallium dissolved ICAP/MS	ND	20	17.9	ug/L	90	(70-130)		
MSD_201412240375	Thallium dissolved ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	3.8
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	0.51
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.981	ug/L	98	(50-150)		
MS_201412240375	Thallium Total ICAP/MS	ND	20	17.9	ug/L	90	(70-130)		
MS2_201412160118	Thallium Total ICAP/MS	ND	20	15.8	ug/L	79	(70-130)		
MSD_201412240375	Thallium Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	3.8
MSD2_201412160118	Thallium Total ICAP/MS	ND	20	16.7	ug/L	83	(70-130)	20	5.5
LCS1	Vanadium Dissolved ICAP/MS		100	102	ug/L	102	(85-115)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Vanadium Dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	2.93	ug/L	98	(50-150)		
MS_201412240375	Vanadium Dissolved ICAP/MS	26	100	128	ug/L	102	(70-130)		
MSD_201412240375	Vanadium Dissolved ICAP/MS	26	100	133	ug/L	108	(70-130)	20	3.8
LCS1	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.93	ug/L	98	(50-150)		
MS_201412240375	Vanadium Total ICAP/MS	26	100	128	ug/L	102	(70-130)		
MS2_201412160118	Vanadium Total ICAP/MS	ND	100	102	ug/L	101	(70-130)		
MSD_201412240375	Vanadium Total ICAP/MS	26	100	133	ug/L	108	(70-130)	20	3.8
MSD2_201412160118	Vanadium Total ICAP/MS	ND	100	105	ug/L	105	(70-130)	20	2.9
LCS1	Zinc dissolved ICAP/MS		100	99.5	ug/L	100	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	98.6	ug/L	99	(85-115)	20	0.91
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	21.0	ug/L	105	(50-150)		
MS_201412240375	Zinc dissolved ICAP/MS	ND	100	98.4	ug/L	95	(70-130)		
MSD_201412240375	Zinc dissolved ICAP/MS	ND	100	103	ug/L	100	(70-130)	20	4.6
LCS1	Zinc Total ICAP/MS		100	99.5	ug/L	100	(85-115)		
LCS2	Zinc Total ICAP/MS		100	98.6	ug/L	99	(85-115)	20	0.91
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.0	ug/L	105	(50-150)		
MS_201412240375	Zinc Total ICAP/MS	ND	100	98.4	ug/L	95	(70-130)		
MS2_201412160118	Zinc Total ICAP/MS	ND	100	178	ug/L	178	(70-130)		
MSD_201412240375	Zinc Total ICAP/MS	ND	100	103	ug/L	100	(70-130)	20	4.6
MSD2_201412160118	Zinc Total ICAP/MS	ND	100	183	ug/L	183	(70-130)	20	2.8

QC Ref# 812209 - ICPMS Metals by EPA 200.8

Analysis Date: 01/02/2015

LCS1	Antimony Total ICAP/MS		50	52.3	ug/L	105	(85-115)		
LCS2	Antimony Total ICAP/MS		50	52.6	ug/L	105	(85-115)	20	0.57
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.15	ug/L	115	(50-150)		
MS_201501020104	Antimony Total ICAP/MS	ND	50	53.3	ug/L	106	(70-130)		
MSD_201501020104	Antimony Total ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	2.6

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
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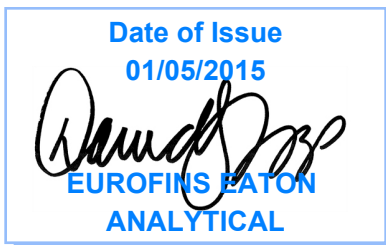


AT-1807

Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 512109
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 512109
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **December 12, 2014 at 1130**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201412120253	Fire Pond	12/11/2014 1100
	@ICPMS @ICPMS @HAA6 @QUANT2000 18HR @THM524 @VOAPP Alkalinity in CaCO3 units Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Biochemical Oxygen Demand,Totl Calcium Total ICAP Chemical Oxygen Demand (COD) Chloride Dissolved Oxygen Field pH Field Specific Conductance Free Chlorine Residual Freight - RUSH Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC Orthophosphate as P (OPO4) PH (H3=past HT not compliant) RUSH Sodium Total ICAP Specific Conductance Sulfate Surfactants Total Chlorine Residual Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc Total Organic Halogen Total phosphorus as P Total Suspended Solids (TSS)	
201412120258	Travel Blank	12/11/2014 1100
	@VOAPP TB	

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @HAA6 -- Haloacetic Acids
- @QUANT2000 18HR -- Quantitray Coliforms 18 Hour
- @THM524 -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624



Eaton Analytical
 formerly MWH Laboratories
 750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 (626) 386-1100 FAX (626) 386-1101

Kit Order for Crystal Geyser Roxane
 David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 98713
 Created By: DST
 Deliver By: 10/10/2014
 STG: Bottle Orders
 Ice Type: W

Client ID: CRYSTAL-ROX
 Project Code: CGR-OLANCHA Bottle Orders
 Group Name: Wastewater
 PC#/JOB#:

Ship Sample Kits to
 Crystal Geyser Roxane
 1210 South Highway 395
 Olancha, CA 93549
 Attn: Manuel Luna - Shipping
 Phone: 760-764-1822
 Fax: 760-764-2861

Send Report to
 Crystal Geyser Roxane
 P.O. Drawer A
 Olancha, CA 93549
 Attn: Manuel Luna
 Phone: 760-764-1822
 Fax: 760-764-2157

Billing Address
 Crystal Geyser Roxane
 P.O. Drawer A
 Olancha, CA 93549
 Attn: Barbie Button
 Phone: 760-764-2885
 Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if applicable	UN DOT #
10	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
10	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
10	@ICPMS, Surfactants	1 500ml poly no preservative	
10	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
10	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
10	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
10	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
10	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
10	Biochemical Oxygen Demand Totl	1 1L poly no preservative	
10	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
10	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
10	Dissolved Oxygen	1 BOD bottle	
10	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL_no preservative	
10	Orthophosphate as P	1 125ml poly OPO4_no preservative	
10	Total Dissolved Solid (TDS), Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	
10	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments

SHIPPING: Please deliver ASAP, but no later than 10/10/14 - 10 separate coolers.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/12/2014 1130

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201412120253	<u>Fire Pond</u>			
12/13/2014 12:43	18 Hour Total Coliform Confrm (Large Wells)		42		PW	1
12/13/2014 12:43	18 Hour Total Coliform Confrm (Small Wells)		13		PW	1
12/17/2014 14:41	Alkalinity in CaCO3 units		66		mg/L	2
12/18/2014 16:29	Arsenic dissolved ICAP/MS		2.6		ug/L	1
12/17/2014 21:02	Arsenic Total ICAP/MS		1.4	10	ug/L	1
12/18/2014 16:29	Barium dissolved ICAP/MS		17		ug/L	2
12/17/2014 21:02	Barium Total ICAP/MS		15	2000	ug/L	2
12/18/2014 10:44	Bicarb. Alkalinity as HCO3calc		74		mg/L	2
12/16/2014 22:41	Calcium Total ICAP		20		mg/L	1
12/13/2014 02:25	Chloride		3.0	250	mg/L	1
12/12/2014 17:32	Dissolved Oxygen		11		mg/L	0.5
12/11/2014 11:00	Field pH		9.38		Units	0.1
12/11/2014 11:00	Field Specific Conductance		196		umho/cm	
12/18/2014 11:29	Kjeldahl Nitrogen		0.33		mg/L	0.2
12/16/2014 22:41	Magnesium Total ICAP		1.6		mg/L	0.1
12/12/2014 15:37	Orthophosphate as P		0.94		mg/L	0.05
12/17/2014 14:41	PH (H3=past HT not compliant)		9.2		Units	0.1
12/16/2014 22:41	Sodium Total ICAP		23		mg/L	1
12/17/2014 14:41	Specific Conductance, 25 C		210		umho/cm	2
12/13/2014 02:25	Sulfate		28	250	mg/L	0.5
12/12/2014 16:33	Surfactants		0.092	0.5	mg/L	0.05
12/13/2014 12:43	Total Coliform Bacteria		120		MPN/100 mL	1
12/18/2014 10:15	Total Dissolved Solids (TDS)		140	500	mg/L	10
12/18/2014 14:51	Total Nitrogen-Calc		0.33		mg/L	0.2
12/22/2014 19:14	Total Organic Halides Rep 2		10		ug/L	10
12/19/2014 17:24	Total phosphorus as P		1.1		mg/L	0.02

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 512109

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
Fire Pond (201412120253)						Sampled on 12/11/2014 1100		
2510B/ SW9050 - Field Specific Conductance								
	12/11/2014	11:00	809313	(2510B/ SW9050)	Field Specific Conductance	196	umho/cm	1
EPA 150.1 - Field pH								
	12/11/2014	11:00	809312	(EPA 150.1)	Field pH	9.38	Units	0.1 1
EPA 200.8 - ICPMS Metals								
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Arsenic dissolved ICAP/MS	2.6	ug/L	1 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Arsenic Total ICAP/MS	1.4	ug/L	1 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Barium dissolved ICAP/MS	17	ug/L	2 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Barium Total ICAP/MS	15	ug/L	2 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	23:38	810490	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5 1
12/12/2014	12/29/2014	15:48	811253	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/18/2014	23:38	810490	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1 1
12/12/2014	12/18/2014	16:29	810900	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3 1
12/12/2014	12/17/2014	21:02	809963	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3 1

Rounding on totals after summation.
 (c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/12/2014	12/18/2014	16:29 810900	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
12/12/2014	12/17/2014	21:02 809963	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
12/12/2014	12/16/2014	22:41 809636	(EPA 200.7)	Calcium Total ICAP	20	mg/L	1	1
12/12/2014	12/16/2014	22:41 809636	(EPA 200.7)	Magnesium Total ICAP	1.6	mg/L	0.1	1
12/12/2014	12/16/2014	22:41 809636	(EPA 200.7)	Sodium Total ICAP	23	mg/L	1	1
SM 9223B - Quantitray Coliforms 18 Hour								
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	18 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	18 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	18 Hour Total Coliform Confm (Large Wells)	42	PW	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	18 Hour Total Coliform Confm (Small Wells)	13	PW	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	Total Coliform Bacteria	120	MPN/100 mL	1	1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
12/12/2014	12/13/2014	12:43 809269	(SM 9223B)	Total Coliform Bacteria (P/A)	P			1
SW9020/SM5320 - Total Organic Halides								
12/22/2014	12/22/2014	19:14 810985	(SW9020/SM5320)	Total Organic Halides Average	ND	ug/L	10	1
12/22/2014	12/22/2014	19:14 810985	(SW9020/SM5320)	Total Organic Halides Rep 1	ND	ug/L	10	1
12/22/2014	12/22/2014	19:14 810985	(SW9020/SM5320)	Total Organic Halides Rep 2	10	ug/L	10	1
EPA 353-351 - Total Nitrogen-Calc								
	12/18/2014	14:51	(EPA 353-351)	Total Nitrogen-Calc	0.33	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	12/18/2014	10:44	(SM2330B)	Bicarb.Alkalinity as HCO3calc	74	mg/L	2	1
SM 6251B - Haloacetic Acids								
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	1,2,3-Trichloropropane	101	%		1
12/17/2014	12/17/2014	22:39 809947	(SM 6251B)	2,3-Dibromopropionic acid	96	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	12/13/2014	02:25 809119	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1

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Laboratory Data
 Report: 512109

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	12/13/2014	02:25 809119	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	12/13/2014	02:25 809122	(EPA 300.0)	Chloride	3.0	mg/L	1	1
	12/13/2014	02:25 809122	(EPA 300.0)	Sulfate	28	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	12/19/2014	17:24 809641	(SM4500-PE/EPA 365.1)	Total phosphorus as P	1.1	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	12/18/2014	11:29 809995	(EPA 351.2)	Kjeldahl Nitrogen	0.33	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	12/22/2014	14:12 810929	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	1,2-Dichloroethane-d4	102	%		1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	4-Bromofluorobenzene	102	%		1
12/16/2014	12/17/2014	6:34 809769	(EPA 524.2)	Toluene-d8	97	%		1
EPA 624 - Volatile Organics by EPA 624								
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Acetone	ND	ug/L	10	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Bromoform	ND	ug/L	0.5	1

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 Report: 512109

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Bromomethane (Methyl Bromide)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Chloromethane(Methyl Chloride)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	1,2-Dichloroethane-d4	102	%		1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	4-Bromofluorobenzene	102	%		1
12/16/2014	12/17/2014	6:34 809318	(EPA 624)	Toluene-d8	97	%		1
SM 2320B - Alkalinity in CaCO3 units								
	12/17/2014	14:41 809787	(SM 2320B)	Alkalinity in CaCO3 units	66	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
12/17/2014	12/18/2014	10:15 809954	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	140	mg/L	10	1

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 Report: 512109

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM4500 - Dissolved Oxygen								
	12/12/2014	17:32 809098	(SM4500)	Dissolved Oxygen	11 (H3)	mg/L	0.5	1
SM4500-HB - PH (H3=past HT not compliant)								
	12/17/2014	14:41 809788	(SM4500-HB)	PH (H3=past HT not compliant)	9.2	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	12/17/2014	17:54 809921	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
SM 5540C/EPA 425.1 - Surfactants								
	12/12/2014	16:33 809062	(SM 5540C/EPA 425.1)	Surfactants	0.092	mg/L	0.05	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	12/15/2014	11:08 808104	(EPA 410.4)	Chemical Oxygen Demand (COD)	ND	mg/L	5	1
SM2510B - Specific Conductance								
	12/17/2014	14:41 809790	(SM2510B)	Specific Conductance, 25 C	210	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	12/13/2014	09:20 809140	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	ND	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	12/12/2014	15:37 809084	(4500P-E/365.1)	Orthophosphate as P	0.94	mg/L	0.05	5
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	12/12/2014	15:00 809112	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	12/12/2014	15:00 809282	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

Travel Blank (201412120258)

Sampled on 12/11/2014 1100

EPA 624 - Volatile Organics by EPA 624								
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	Acetone	ND	ug/L	10	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/16/2014	12/17/2014	4:42 809318	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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Samples Received on:
 12/12/2014 1130

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Bromoform	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Bromomethane (Methyl Bromide)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Chloromethane(Methyl Chloride)	ND (R7)	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	1,2-Dichloroethane-d4	105	%		1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	4-Bromofluorobenzene	102	%		1
12/16/2014	12/17/2014	4:42	809318	(EPA 624)	Toluene-d8	98	%		1

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Flags Legend:

H3 - Sample was received and/ or analysis requested past holding time.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

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Crystal Geysler Roxane

QC Ref # 808104 - Chemical Oxygen Demand (COD)	Analysis Date: 12/15/2014
201412120253 Fire Pond	Analyzed by: 6Q4
QC Ref # 809062 - Surfactants	Analysis Date: 12/12/2014
201412120253 Fire Pond	Analyzed by: MIA8
QC Ref # 809084 - Orthophosphate as P (OPO4)	Analysis Date: 12/12/2014
201412120253 Fire Pond	Analyzed by: MIA8
QC Ref # 809098 - Dissolved Oxygen	Analysis Date: 12/12/2014
201412120253 Fire Pond	Analyzed by: MXT
QC Ref # 809112 - Total Chlorine Residual (H3=past HT not complian	Analysis Date: 12/12/2014
201412120253 Fire Pond	Analyzed by: NJR
QC Ref # 809119 - Nitrate, Nitrite by EPA 300.0	Analysis Date: 12/13/2014
201412120253 Fire Pond	Analyzed by: CYP
QC Ref # 809122 - Chloride, Sulfate by EPA 300.0	Analysis Date: 12/13/2014
201412120253 Fire Pond	Analyzed by: CYP
QC Ref # 809140 - Biochemical Oxygen Demand, Totl	Analysis Date: 12/13/2014
201412120253 Fire Pond	Analyzed by: MIA8
QC Ref # 809269 - Quantitray Coliforms 18 Hour	Analysis Date: 12/13/2014
201412120253 Fire Pond	Analyzed by: WAE
QC Ref # 809282 - Free Chlorine Residual (H3=past HT not complian	Analysis Date: 12/12/2014
201412120253 Fire Pond	Analyzed by: NJR
QC Ref # 809312 - Field pH	Analysis Date: 12/11/2014
201412120253 Fire Pond	Analyzed by: ADT
QC Ref # 809313 - Field Specific Conductance	Analysis Date: 12/11/2014
201412120253 Fire Pond	Analyzed by: ADT
QC Ref # 809318 - Volatile Organics by EPA 624	Analysis Date: 12/17/2014
201412120253 Fire Pond	Analyzed by: KAM
201412120258 Travel Blank	Analyzed by: KAM
QC Ref # 809636 - ICP Metals	Analysis Date: 12/16/2014
201412120253 Fire Pond	Analyzed by: NINA
QC Ref # 809641 - Total phosphorus as P (T-P)	Analysis Date: 12/19/2014
201412120253 Fire Pond	Analyzed by: KXS
QC Ref # 809769 - Volatile Organics by GCMS	Analysis Date: 12/17/2014
201412120253 Fire Pond	Analyzed by: KAM
QC Ref # 809787 - Alkalinity in CaCO3 units	Analysis Date: 12/17/2014
201412120253 Fire Pond	Analyzed by: 6Q4
QC Ref # 809788 - PH (H3=past HT not compliant)	Analysis Date: 12/17/2014

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Crystal Geysers Roxane

201412120253	Fire Pond	Analyzed by: 6Q4
QC Ref # 809790 - Specific Conductance		Analysis Date: 12/17/2014
201412120253	Fire Pond	Analyzed by: 6Q4
QC Ref # 809921 - Total Suspended Solids (TSS)		Analysis Date: 12/17/2014
201412120253	Fire Pond	Analyzed by: JRF
QC Ref # 809947 - Haloacetic Acids		Analysis Date: 12/17/2014
201412120253	Fire Pond	Analyzed by: A4H
QC Ref # 809954 - Total Dissolved Solids (TDS)		Analysis Date: 12/18/2014
201412120253	Fire Pond	Analyzed by: JRF
QC Ref # 809963 - ICPMS Metals		Analysis Date: 12/17/2014
201412120253	Fire Pond	Analyzed by: AZS
QC Ref # 809995 - Total Kjeldahl Nitrogen		Analysis Date: 12/18/2014
201412120253	Fire Pond	Analyzed by: KXS
QC Ref # 810490 - ICPMS Metals		Analysis Date: 12/18/2014
201412120253	Fire Pond	Analyzed by: AZS
QC Ref # 810900 - ICPMS Metals		Analysis Date: 12/18/2014
201412120253	Fire Pond	Analyzed by: SXK
QC Ref # 810929 - Ammonia Nitrogen		Analysis Date: 12/22/2014
201412120253	Fire Pond	Analyzed by: MYH
QC Ref # 810985 - Total Organic Halides		Analysis Date: 12/22/2014
201412120253	Fire Pond	Analyzed by: KXS
QC Ref # 811253 - ICPMS Metals		Analysis Date: 12/29/2014
201412120253	Fire Pond	Analyzed by: AZS

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 808104 - Chemical Oxygen Demand (COD) by EPA 410.4						Analysis Date: 12/15/2014			
LCS1	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)	20	0.0
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	5.00	mg/L	100	(50-150)		
MS_201412080191	Chemical Oxygen Demand (COD)	ND	50	44.0	mg/L	<u>88</u>	(90-110)		
MSD_201412080191	Chemical Oxygen Demand (COD)	ND	50	45.0	mg/L	90	(90-110)	20	2.3
QC Ref# 809062 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 12/12/2014			
LCS1	Surfactants		0.2	0.208	mg/L	104	(90-110)		
LCS2	Surfactants		0.2	0.208	mg/L	104	(90-110)	20	0.0
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0582	mg/L	116	(50-150)		
MS_201412110625	Surfactants	ND	0.2	0.212	mg/L	102	(80-120)		
MSD_201412110625	Surfactants	ND	0.2	0.197	mg/L	95	(80-120)	20	7.3
QC Ref# 809084 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 12/12/2014			
LCS1	Orthophosphate as P		0.25	0.253	mg/L	101	(90-110)		
LCS2	Orthophosphate as P		0.25	0.261	mg/L	104	(90-110)	20	3.1
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0100	mg/L	100	(50-150)		
MS_201412120383	Orthophosphate as P	ND	0.5	0.508	mg/L	102	(90-110)		
MSD_201412120383	Orthophosphate as P	ND	0.5	0.503	mg/L	101	(90-110)	20	0.99
QC Ref# 809098 - Dissolved Oxygen by SM4500						Analysis Date: 12/12/2014			
MBLK	Dissolved Oxygen			<0.5	mg/L				
QC Ref# 809112 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 12/12/2014			
LCS1	Total Chlorine Residual		1.0	0.980	mg/L	98	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.01	mg/L	101	(85-115)	20	3.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		
QC Ref# 809119 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 12/12/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.41	mg/L	96	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0452	mg/L	90	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0112	mg/L	90	(50-150)		
MS_201412120132	Nitrate as Nitrogen by IC	ND	1.3	2.42	mg/L	97	(80-120)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412120237	Nitrate as Nitrogen by IC	0.55	1.3	1.76	mg/L	97	(80-120)		
MSD_201412120132	Nitrate as Nitrogen by IC	ND	1.3	2.42	mg/L	97	(80-120)	20	0.41
MSD_201412120237	Nitrate as Nitrogen by IC	0.55	1.3	1.77	mg/L	98	(80-120)	20	0.57
LCS1	Nitrite Nitrogen by IC		1.0	0.962	mg/L	96	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.957	mg/L	96	(90-110)	20	0.52
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0460	mg/L	92	(50-150)		
MRLLLW	Nitrite Nitrogen by IC		0.013	0.0120	mg/L	96	(50-150)		
MS_201412120132	Nitrite Nitrogen by IC	ND	0.5	0.844	mg/L	84	(80-120)		
MS_201412120237	Nitrite Nitrogen by IC	ND	0.5	0.493	mg/L	99	(80-120)		
MSD_201412120132	Nitrite Nitrogen by IC	ND	0.5	0.847	mg/L	85	(80-120)	20	0.36
MSD_201412120237	Nitrite Nitrogen by IC	ND	0.5	0.496	mg/L	99	(80-120)	20	0.61

QC Ref# 809122 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 12/12/2014

LCS1	Chloride		25	24.6	mg/L	98	(90-110)		
LCS2	Chloride		25	24.5	mg/L	98	(90-110)	20	0.41
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.399	mg/L	80	(50-150)		
MS_201412120132	Chloride	36	13	59.7	mg/L	96	(80-120)		
MS_201412120237	Chloride	1.1	13	13.4	mg/L	98	(80-120)		
MSD_201412120132	Chloride	36	13	59.8	mg/L	96	(80-120)	20	0.17
MSD_201412120237	Chloride	1.1	13	13.4	mg/L	98	(80-120)	20	0.0
LCS1	Sulfate		50	51.2	mg/L	102	(90-110)		
LCS2	Sulfate		50	51.2	mg/L	102	(90-110)	20	0.0
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.936	mg/L	94	(50-150)		
MRLLLW	Sulfate		0.25	0.250	mg/L	100	(50-150)		
MS_201412120132	Sulfate	110	25	161	mg/L	94	(80-120)		
MS_201412120237	Sulfate	3.2	25	28.8	mg/L	102	(80-120)		
MSD_201412120132	Sulfate	110	25	161	mg/L	94	(80-120)	20	0.0
MSD_201412120237	Sulfate	3.2	25	28.9	mg/L	103	(80-120)	20	0.35

QC Ref# 809140 - Biochemical Oxygen Demand,Totl by SM5210B 405.1

Analysis Date: 12/13/2014

DUP1_201412120269	Biochemical Oxygen DemandTotl	7.8		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	177	mg/L	89	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				

QC Ref# 809282 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH

Analysis Date: 12/12/2014

LCS1	Free Chlorine Residual		1.0	0.930	mg/L	93	(85-115)		
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Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)	20	1.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 809318 - Volatile Organics by EPA 624 by EPA 624						Analysis Date: 12/16/2014			
LCS1	1,1,1-Trichloroethane		20	18.1	ug/L	91	(79-121)		
LCS2	1,1,1-Trichloroethane		20	20.4	ug/L	102	(79-121)	20	12
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.410	ug/L	82	(50-150)		
MS_201412090243	1,1,1-Trichloroethane	ND	10	11.3	ug/L	113	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	19.7	ug/L	99	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	21.1	ug/L	106	(77-126)	20	6.9
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.400	ug/L	80	(50-150)		
MS_201412090243	1,1,2,2-Tetrachloroethane	ND	10	9.93	ug/L	99	(79-130)		
LCS1	1,1,2-Trichloroethane		20	19.1	ug/L	96	(79-116)		
LCS2	1,1,2-Trichloroethane		20	21.2	ug/L	106	(79-116)	20	10
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.390	ug/L	78	(50-150)		
MS_201412090243	1,1,2-Trichloroethane	ND	10	10.2	ug/L	102	(76-129)		
LCS1	1,1-Dichloroethane		20	18.4	ug/L	92	(77-129)		
LCS2	1,1-Dichloroethane		20	20.9	ug/L	105	(77-129)	20	13
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-146)		
LCS1	1,1-Dichloroethylene		20	18.9	ug/L	95	(77-139)		
LCS2	1,1-Dichloroethylene		20	22.4	ug/L	112	(77-139)	20	17
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.440	ug/L	88	(50-150)		
MS_201412090243	1,1-Dichloroethylene	ND	10	10.8	ug/L	108	(75-134)		
LCS1	1,2-Dichloroethane		20	18.4	ug/L	92	(81-122)		
LCS2	1,2-Dichloroethane		20	20.9	ug/L	104	(81-122)	20	13
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	1,2-Dichloroethane	ND	10	10.7	ug/L	107	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.4	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			92.4	%	92	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLW	1,2-Dichloroethane-d4 (S)			89.4	%	89	(70-130)		
MS_201412090243	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
LCS1	1,2-Dichloropropane		20	19.0	ug/L	95	(77-118)		
LCS2	1,2-Dichloropropane		20	21.1	ug/L	105	(77-118)	20	11
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
MS_201412090243	1,2-Dichloropropane	ND	10	10.4	ug/L	104	(73-132)		
LCS1	2-Butanone (MEK)		200	175	ug/L	88	(65-122)		
LCS2	2-Butanone (MEK)		200	195	ug/L	97	(65-122)	20	11
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.82	ug/L	96	(50-150)		
MS_201412090243	2-Butanone (MEK)	ND	100	96.1	ug/L	96	(59-129)		
LCS1	2-Hexanone		200	197	ug/L	99	(72-128)		
LCS2	2-Hexanone		200	218	ug/L	109	(72-128)	20	10
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.39	ug/L	88	(50-150)		
MS_201412090243	2-Hexanone	ND	100	108	ug/L	109	(71-134)		
LCS1	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.6	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			109	%	109	(70-130)		
MRLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201412090243	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	195	ug/L	98	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	217	ug/L	108	(76-130)	20	11
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.41	ug/L	88	(50-150)		
MS_201412090243	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(75-136)		
LCS1	Acetone		200	190	ug/L	95	(47-117)		
LCS2	Acetone		200	216	ug/L	108	(47-117)	20	13
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	3.53	ug/L	71	(50-150)		
MS_201412090243	Acetone	ND	100	107	ug/L	107	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	18.6	ug/L	93	(60-156)		
LCS2	Benzene		20	20.8	ug/L	104	(60-156)	20	11
MBLK	Benzene			<0.25	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Benzene		0.5	0.450	ug/L	90	(50-150)		
MS_201412090243	Benzene	ND	10	10.5	ug/L	105	(76-133)		
LCS1	Bromodichloromethane		20	19.0	ug/L	95	(77-113)		
LCS2	Bromodichloromethane		20	21.3	ug/L	106	(77-113)	20	11
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Bromodichloromethane	ND	10	10.0	ug/L	100	(77-130)		
LCS1	Bromoform		20	18.9	ug/L	95	(54-134)		
LCS2	Bromoform		20	19.6	ug/L	98	(54-134)	20	3.6
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.400	ug/L	80	(50-150)		
MS_201412090243	Bromoform	ND	10	9.60	ug/L	96	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	16.8	ug/L	84	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	21.0	ug/L	105	(67-144)	20	<u>22</u>
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Bromomethane (Methyl Bromide)	ND	10	13.4	ug/L	134	(55-147)		
LCS1	Carbon disulfide		20	17.1	ug/L	86	(63-131)		
LCS2	Carbon disulfide		20	19.4	ug/L	97	(63-131)	20	13
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.500	ug/L	100	(50-150)		
MS_201412090243	Carbon disulfide	ND	10	10.4	ug/L	104	(65-155)		
LCS1	Carbon Tetrachloride		20	18.2	ug/L	91	(73-127)		
LCS2	Carbon Tetrachloride		20	20.0	ug/L	100	(73-127)	20	9.4
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.330	ug/L	66	(50-150)		
MS_201412090243	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(71-151)		
LCS1	Chlorobenzene		20	19.0	ug/L	95	(57-166)		
LCS2	Chlorobenzene		20	21.3	ug/L	107	(57-166)	20	11
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.500	ug/L	100	(50-150)		
MS_201412090243	Chlorobenzene	ND	10	10.6	ug/L	106	(77-132)		
LCS1	Chlorodibromomethane		20	19.6	ug/L	98	(77-113)		
LCS2	Chlorodibromomethane		20	21.4	ug/L	107	(77-113)	20	8.8
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Chlorodibromomethane	ND	10	10.2	ug/L	102	(68-136)		
LCS1	Chloroethane		20	16.7	ug/L	83	(70-133)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloroethane		20	19.7	ug/L	98	(70-133)	20	17
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412090243	Chloroethane	ND	10	11.1	ug/L	111	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	18.1	ug/L	91	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	19.9	ug/L	99	(78-117)	20	9.5
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Chloroform (Trichloromethane)	ND	10	10.3	ug/L	103	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	16.0	ug/L	80	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	19.6	ug/L	98	(78-134)	20	20
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.620	ug/L	124	(50-150)		
MS_201412090243	Chloromethane(Methyl Chloride)	ND	10	11.5	ug/L	114	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	18.5	ug/L	93	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	20.2	ug/L	101	(80-114)	20	8.8
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201412090243	cis-1,2-Dichloroethylene	ND	10	10.6	ug/L	106	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	19.8	ug/L	99	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	21.5	ug/L	108	(68-123)	20	8.2
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201412090243	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(65-120)		
LCS1	Dichlorodifluoromethane		20	16.8	ug/L	84	(46-165)		
LCS2	Dichlorodifluoromethane		20	20.9	ug/L	105	(46-165)	20	<u>22</u>
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.370	ug/L	74	(50-150)		
MS_201412090243	Dichlorodifluoromethane	ND	10	12.8	ug/L	128	(30-169)		
LCS1	Dichloromethane		20	18.4	ug/L	92	(77-121)		
LCS2	Dichloromethane		20	20.8	ug/L	104	(77-121)	20	12
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201412090243	Dichloromethane	ND	10	10.5	ug/L	105	(75-132)		
LCS1	Ethyl benzene		20	20.0	ug/L	100	(79-122)		
LCS2	Ethyl benzene		20	22.4	ug/L	112	(79-122)	20	11
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090243	Ethyl benzene	ND	10	11.1	ug/L	111	(68-146)		
LCS1	m,p-Xylenes		40	39.4	ug/L	98	(82-123)		
LCS2	m,p-Xylenes		40	45.4	ug/L	113	(82-123)	20	14
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.03	ug/L	103	(50-150)		
MRLW	m,p-Xylenes		0.5	0.510	ug/L	102	(50-150)		
MS_201412090243	m,p-Xylenes	ND	20	22.1	ug/L	110	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	19.4	ug/L	97	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	20.9	ug/L	105	(76-124)	20	7.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201412090243	m-Dichlorobenzene (1,3-DCB)	ND	10	10.8	ug/L	108	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	18.4	ug/L	92	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	20.5	ug/L	103	(70-130)	20	11
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.550	ug/L	110	(50-150)		
MS_201412090243	Methyl Tert-butyl ether (MTBE)	ND	10	9.97	ug/L	100	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	18.6	ug/L	93	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	20.7	ug/L	104	(79-118)	20	11
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	o-Dichlorobenzene (1,2-DCB)	ND	10	10.1	ug/L	101	(80-125)		
LCS1	o-Xylene		20	19.0	ug/L	95	(79-120)		
LCS2	o-Xylene		20	21.5	ug/L	108	(79-120)	20	12
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.450	ug/L	90	(50-150)		
MS_201412090243	o-Xylene	ND	10	10.8	ug/L	108	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	19.7	ug/L	99	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	20.6	ug/L	103	(74-130)	20	4.5
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.590	ug/L	118	(50-150)		
MS_201412090243	p-Dichlorobenzene (1,4-DCB)	ND	10	11.1	ug/L	111	(71-145)		
LCS1	Styrene		20	17.7	ug/L	89	(77-125)		
LCS2	Styrene		20	19.7	ug/L	99	(77-125)	20	11
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.600	ug/L	120	(50-150)		
MS_201412090243	Styrene	ND	10	5.41	ug/L	<u>54</u>	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	19.5	ug/L	98	(79-122)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Tetrachloroethylene (PCE)		20	21.3	ug/L	107	(79-122)	20	8.8
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Tetrachloroethylene (PCE)	ND	10	11.1	ug/L	111	(72-146)		
LCS1	Tetrahydrofuran		200	195	ug/L	98	(67-130)		
LCS2	Tetrahydrofuran		200	220	ug/L	110	(67-130)	20	12
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	5.58	ug/L	112	(50-150)		
MS_201412090243	Tetrahydrofuran	ND	100	110	ug/L	110	(68-134)		
LCS1	Toluene		20	18.4	ug/L	92	(80-118)		
LCS2	Toluene		20	21.2	ug/L	106	(80-118)	20	15
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.480	ug/L	96	(50-150)		
MS_201412090243	Toluene	ND	10	10.5	ug/L	105	(66-143)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			90.8	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
MRLW	Toluene-d8 (S)			99.4	%	99	(70-130)		
MS_201412090243	Toluene-d8 (S)			99.8	%	100	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	18.0	ug/L	90	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	20.8	ug/L	104	(82-122)	20	14
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.420	ug/L	84	(50-150)		
MS_201412090243	trans-1,2-Dichloroethylene	ND	10	10.5	ug/L	105	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	20.6	ug/L	103	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	22.5	ug/L	113	(64-126)	20	8.8
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.310	ug/L	62	(50-150)		
MS_201412090243	trans-1,3-Dichloropropene	ND	10	9.73	ug/L	97	(61-127)		
LCS1	Trichloroethylene (TCE)		20	19.9	ug/L	99	(78-119)		
LCS2	Trichloroethylene (TCE)		20	22.1	ug/L	110	(78-119)	20	11
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412090243	Trichloroethylene (TCE)	ND	10	11.3	ug/L	113	(71-139)		
LCS1	Trichlorofluoromethane		20	16.1	ug/L	81	(70-145)		
LCS2	Trichlorofluoromethane		20	18.5	ug/L	93	(70-145)	20	14
MBLK	Trichlorofluoromethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Trichlorofluoromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412090243	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(63-161)		
LCS1	Vinyl Acetate		100	93.2	ug/L	93	(72-136)		
LCS2	Vinyl Acetate		100	104	ug/L	104	(72-136)	20	11
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.94	ug/L	118	(50-150)		
MS_201412090243	Vinyl Acetate	ND	50	39.5	ug/L	79	(55-146)		
LCS1	Vinyl chloride (VC)		20	19.2	ug/L	96	(66-140)		
LCS2	Vinyl chloride (VC)		20	21.6	ug/L	108	(66-140)	20	12
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.390	ug/L	78	(50-150)		
MRLLW	Vinyl chloride (VC)		0.3	0.280	ug/L	93	(50-150)		
MS_201412090243	Vinyl chloride (VC)	ND	10	12.4	ug/L	123	(56-159)		

QC Ref# 809636 - ICP Metals by EPA 200.7

Analysis Date: 12/16/2014

LCS1	Calcium Total ICAP		50	51.3	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	50.9	mg/L	102	(85-115)	20	0.78
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.990	mg/L	99	(50-150)		
MS_201412040238	Calcium Total ICAP	3.8	50	55.3	mg/L	103	(70-130)		
MS2_201412100800	Calcium Total ICAP	52	50	103	mg/L	102	(70-130)		
MSD_201412040238	Calcium Total ICAP	3.8	50	56.2	mg/L	105	(70-130)	20	1.8
MSD2_201412100800	Calcium Total ICAP	52	50	106	mg/L	108	(70-130)	20	2.9
LCS1	Magnesium Total ICAP		20	21.2	mg/L	106	(85-115)		
LCS2	Magnesium Total ICAP		20	21.0	mg/L	105	(85-115)	20	0.95
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201412040238	Magnesium Total ICAP	1.0	20	22.3	mg/L	107	(70-130)		
MS2_201412100800	Magnesium Total ICAP	12	20	33.1	mg/L	106	(70-130)		
MSD_201412040238	Magnesium Total ICAP	1.0	20	22.6	mg/L	108	(70-130)	20	1.3
MSD2_201412100800	Magnesium Total ICAP	12	20	34.3	mg/L	112	(70-130)	20	3.6
LCS1	Sodium Total ICAP		50	51.2	mg/L	102	(85-115)		
LCS2	Sodium Total ICAP		50	50.7	mg/L	101	(85-115)	20	0.98
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.02	mg/L	102	(50-150)		
MS_201412040238	Sodium Total ICAP	2.4	50	53.8	mg/L	103	(70-130)		
MS2_201412100800	Sodium Total ICAP	88	50	137	mg/L	99	(70-130)		
MSD_201412040238	Sodium Total ICAP	2.4	50	54.4	mg/L	104	(70-130)	20	1.1
MSD2_201412100800	Sodium Total ICAP	88	50	143	mg/L	111	(70-130)	20	4.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 809641 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 12/19/2014			
LCS1	Total phosphorus as P		0.4	0.404	mg/L	101	(90-110)		
LCS2	Total phosphorus as P		0.4	0.391	mg/L	98	(90-110)	20	3.3
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0193	mg/L	97	(50-150)		
MS_201412120253	Total phosphorus as P	1.1	0.4	1.48	mg/L	98	(90-110)		
MSD_201412120253	Total phosphorus as P	1.1	0.4	1.49	mg/L	100	(90-110)	20	0.67
QC Ref# 809769 - Volatile Organics by GCMS by EPA 524.2						Analysis Date: 12/17/2014			
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
LCS1	Bromodichloromethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	Bromodichloromethane		5.0	5.12	ug/L	102	(70-130)	20	6.2
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	4.84	ug/L	97	(70-130)		
LCS2	Bromoform		5.0	4.68	ug/L	94	(70-130)	20	3.4
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	5.33	ug/L	107	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.08	ug/L	102	(70-130)	20	4.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	5.55	ug/L	111	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.30	ug/L	106	(70-130)	20	4.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			96.8	%	97	(70-130)		
MBLK	Toluene-d8 (S)			90.8	%	91	(70-130)		
QC Ref# 809787 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 12/17/2014			
LCS1	Alkalinity in CaCO3 units		100	101	mg/L	101	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	101	mg/L	101	(90-110)	20	0.0
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.18	mg/L	109	(50-150)		
MS_201412120237	Alkalinity in CaCO3 units	42	100	140	mg/L	97	(80-120)		
MS_201412120253	Alkalinity in CaCO3 units	66	100	165	mg/L	99	(80-120)		
MSD_201412120237	Alkalinity in CaCO3 units	42	100	140	mg/L	98	(80-120)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412120253	Alkalinity in CaCO3 units	66	100	165	mg/L	100	(80-120)	20	0.0
QC Ref# 809788 - PH (H3=past HT not compliant) by SM4500-HB					Analysis Date: 12/17/2014				
DUP_201412120237	PH (H3=past HT not compliant)	6.6	0.01	6.61	Units		(0-20)	20	0.61
DUP_201412120253	PH (H3=past HT not compliant)	9.2	0.01	9.25	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 809790 - Specific Conductance by SM2510B					Analysis Date: 12/17/2014				
DUP1_201412120237	Specific Conductance	100	2	101	umho/cm		(0-20)	20	0.30
DUP1_201412120253	Specific Conductance	210	2	210	umho/cm		(0-20)	20	0.29
LCS1	Specific Conductance		1000	1000	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1010	umho/cm	101	(95-105)	20	1
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.70	umho/cm	104	(50-150)		
QC Ref# 809921 - Total Suspended Solids (TSS) by SM 2540D					Analysis Date: 12/17/2014				
DUP_201412110751	Total Suspended Solids (TSS)	90	10	92.0	mg/L		(0-10)	10	2.2
DUP_201412110786	Total Suspended Solids (TSS)	250	10	236	mg/L		(0-10)	10	4.1
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	172	mg/L	98	(71-107)	20	1.2
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 809947 - Haloacetic Acids by SM 6251B					Analysis Date: 12/17/2014				
CCCH	1,2,3-Trichloropropane (I)			98.9	%	99	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			100	%	100	(80-130)		
DUP1_201412120269	1,2,3-Trichloropropane (I)			100	%	101	(80-120)		
DUP2_201412110863	1,2,3-Trichloropropane (I)			98.6	%	99	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			99.9	%	100	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS1_201412120253	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
MS2_201412110862	1,2,3-Trichloropropane (I)			97.7	%	98	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			94.5	%	95	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP1_201412120269	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
DUP2_201412110863	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			98.6	%	99	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			92.8	%	93	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	2,3-Dibromopropionic acid (S)			89.5	%	90	(70-130)		
MS1_201412120253	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
MS2_201412110862	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
CCCH	Bromochloroacetic acid		32	31.0	ug/L	97	(85-115)		
CCCM	Bromochloroacetic acid		20	19.5	ug/L	97	(85-115)		
DUP1_201412120269	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Bromochloroacetic acid	8.5		9.28	ug/L		(0-20)	20	9.0
LCS3	Bromochloroacetic acid		8.0	7.63	ug/L	95	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	0.956	ug/L	96	(50-150)		
MS1_201412120253	Bromochloroacetic acid	ND	20	20.0	ug/L	100	(84-123)		
MS2_201412110862	Bromochloroacetic acid	8.7	32	41.7	ug/L	103	(84-123)		
CCCH	Dibromoacetic acid		32	30.2	ug/L	95	(85-115)		
CCCM	Dibromoacetic acid		20	19.4	ug/L	97	(85-115)		
DUP1_201412120269	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dibromoacetic acid	14		15.0	ug/L		(0-20)	20	10
LCS3	Dibromoacetic acid		8.0	7.87	ug/L	98	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.939	ug/L	94	(50-150)		
MS1_201412120253	Dibromoacetic acid	ND	20	19.8	ug/L	99	(84-122)		
MS2_201412110862	Dibromoacetic acid	14	32	44.2	ug/L	94	(84-122)		
CCCH	Dichloroacetic acid		32	30.8	ug/L	96	(85-115)		
CCCM	Dichloroacetic acid		20	19.6	ug/L	98	(85-115)		
DUP1_201412120269	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Dichloroacetic acid	3.5		3.81	ug/L		(0-20)	20	7.6
LCS3	Dichloroacetic acid		8.0	7.52	ug/L	94	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	0.978	ug/L	98	(50-150)		
MS1_201412120253	Dichloroacetic acid	ND	20	20.3	ug/L	102	(79-123)		
MS2_201412110862	Dichloroacetic acid	3.4	32	36.7	ug/L	104	(79-123)		
CCCH	Monobromoacetic acid		32	30.4	ug/L	95	(85-115)		
CCCM	Monobromoacetic acid		20	18.2	ug/L	91	(85-115)		
DUP1_201412120269	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monobromoacetic acid	1.8		1.78	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	7.09	ug/L	89	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	0.736	ug/L	74	(50-150)		
MS1_201412120253	Monobromoacetic acid	ND	20	21.1	ug/L	105	(81-122)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412110862	Monobromoacetic acid	1.8	32	36.8	ug/L	109	(81-122)		
CCCH	Monochloroacetic acid		32	30.2	ug/L	94	(85-115)		
CCCM	Monochloroacetic acid		20	19.2	ug/L	96	(85-115)		
DUP1_201412120269	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	7.72	ug/L	97	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	1.94	ug/L	97	(50-150)		
MS1_201412120253	Monochloroacetic acid	ND	20	20.3	ug/L	101	(72-126)		
MS2_201412110862	Monochloroacetic acid	ND	32	29.5	ug/L	92	(72-126)		
CCCH	Trichloroacetic acid		32	31.7	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	19.3	ug/L	97	(85-115)		
DUP1_201412120269	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412110863	Trichloroacetic acid	1.5		1.63	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	6.88	ug/L	86	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.839	ug/L	84	(50-150)		
MS1_201412120253	Trichloroacetic acid	ND	20	20.9	ug/L	104	(82-124)		
MS2_201412110862	Trichloroacetic acid	1.6	32	36.1	ug/L	108	(82-124)		

QC Ref# 809954 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 12/18/2014

DUP_201412110759	Total Dissolved Solid (TDS)	890		888	mg/L		(0-20)	20	0.23
DUP_201412130005	Total Dissolved Solid (TDS)	260		256	mg/L		(0-20)	20	1.6
LCS1	Total Dissolved Solid (TDS)		175	178	mg/L	102	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	718	mg/L	103	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 809963 - ICPMS Metals by EPA 200.8

Analysis Date: 12/17/2014

LCS1	Antimony Total ICAP/MS		50	47.1	ug/L	94	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.2	ug/L	95	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.29	ug/L	129	(50-150)		
MS_201412120389	Antimony Total ICAP/MS	1	50	47.6	ug/L	93	(70-130)		
MS2_201412120392	Antimony Total ICAP/MS	ND	50	49.4	ug/L	98	(70-130)		
MSD_201412120389	Antimony Total ICAP/MS	1	50	49.0	ug/L	96	(70-130)	20	2.9
MSD2_201412120392	Antimony Total ICAP/MS	ND	50	49.6	ug/L	98	(70-130)	20	0.40
LCS1	Arsenic Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	2.1

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.06	ug/L	106	(50-150)		
MS_201412120389	Arsenic Total ICAP/MS	5.8	20	25.4	ug/L	98	(70-130)		
MS2_201412120392	Arsenic Total ICAP/MS	1.5	20	21.4	ug/L	100	(70-130)		
MSD_201412120389	Arsenic Total ICAP/MS	5.8	20	25.5	ug/L	98	(70-130)	20	0.39
MSD2_201412120392	Arsenic Total ICAP/MS	1.5	20	21.7	ug/L	101	(70-130)	20	1.4
LCS1	Barium Total ICAP/MS		100	96.4	ug/L	96	(85-115)		
LCS2	Barium Total ICAP/MS		100	94.9	ug/L	95	(85-115)	20	1.6
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.41	ug/L	120	(50-150)		
MS_201412120389	Barium Total ICAP/MS	33	100	127	ug/L	95	(70-130)		
MS2_201412120392	Barium Total ICAP/MS	37	100	132	ug/L	95	(70-130)		
MSD_201412120389	Barium Total ICAP/MS	33	100	129	ug/L	96	(70-130)	20	1.6
MSD2_201412120392	Barium Total ICAP/MS	37	100	133	ug/L	96	(70-130)	20	0.76
LCS1	Beryllium Total ICAP/MS		5.0	4.83	ug/L	97	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.59	ug/L	92	(85-115)	20	5.1
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.956	ug/L	96	(50-150)		
MS_201412120389	Beryllium Total ICAP/MS	ND	5.0	4.47	ug/L	89	(70-130)		
MS2_201412120392	Beryllium Total ICAP/MS	ND	5.0	4.56	ug/L	91	(70-130)		
MSD_201412120389	Beryllium Total ICAP/MS	ND	5.0	4.75	ug/L	95	(70-130)	20	6.1
MSD2_201412120392	Beryllium Total ICAP/MS	ND	5.0	4.52	ug/L	91	(70-130)	20	0.88
LCS1	Cadmium Total ICAP/MS		20	19.9	ug/L	100	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	1.5
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.604	ug/L	121	(50-150)		
MS_201412120389	Cadmium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)		
MS2_201412120392	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MSD_201412120389	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	2.0
MSD2_201412120392	Cadmium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)	20	0.52
LCS1	Chromium Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.2	ug/L	98	(85-115)	20	1.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MS_201412120389	Chromium Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201412120392	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MSD_201412120389	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	4.8
MSD2_201412120392	Chromium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)	20	0.0
LCS1	Cobalt Total ICAP/MS		100	97.9	ug/L	98	(85-115)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Cobalt Total ICAP/MS		100	96.6	ug/L	97	(85-115)	20	1.3
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.56	ug/L	128	(50-150)		
MS_201412120389	Cobalt Total ICAP/MS	ND	100	97.2	ug/L	97	(70-130)		
MS2_201412120392	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MSD_201412120389	Cobalt Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	2.8
MSD2_201412120392	Cobalt Total ICAP/MS	ND	100	100	ug/L	99	(70-130)	20	1
LCS1	Copper Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	96.6	ug/L	97	(85-115)	20	1.3
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.60	ug/L	130	(50-150)		
MS_201412120389	Copper Total ICAP/MS	7.4	100	99.6	ug/L	92	(70-130)		
MS2_201412120392	Copper Total ICAP/MS	3.4	100	96.2	ug/L	93	(70-130)		
MSD_201412120389	Copper Total ICAP/MS	7.4	100	102	ug/L	94	(70-130)	20	2.4
MSD2_201412120392	Copper Total ICAP/MS	3.4	100	96.4	ug/L	93	(70-130)	20	0.10
LCS1	Lead Total ICAP/MS		20	19.9	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.617	ug/L	123	(50-150)		
MS_201412120389	Lead Total ICAP/MS	ND	20	20.2	ug/L	100	(70-130)		
MS2_201412120392	Lead Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)		
MSD_201412120389	Lead Total ICAP/MS	ND	20	20.5	ug/L	101	(70-130)	20	1.5
MSD2_201412120392	Lead Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	0.0
LCS1	Molybdenum Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.63	ug/L	132	(50-150)		
MS_201412120389	Molybdenum Total ICAP/MS	17	100	119	ug/L	102	(70-130)		
MS2_201412120392	Molybdenum Total ICAP/MS	7	100	111	ug/L	104	(70-130)		
MSD_201412120389	Molybdenum Total ICAP/MS	17	100	122	ug/L	105	(70-130)	20	2.5
MSD2_201412120392	Molybdenum Total ICAP/MS	7	100	111	ug/L	104	(70-130)	20	0.0
LCS1	Nickel Total ICAP/MS		50	49.0	ug/L	98	(85-115)		
LCS2	Nickel Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	1.2
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.22	ug/L	104	(50-150)		
MS_201412120389	Nickel Total ICAP/MS	ND	50	52.2	ug/L	96	(70-130)		
MS2_201412120392	Nickel Total ICAP/MS	6	50	54.4	ug/L	97	(70-130)		
MSD_201412120389	Nickel Total ICAP/MS	ND	50	53.0	ug/L	97	(70-130)	20	1.5

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201412120392	Nickel Total ICAP/MS	6	50	53.9	ug/L	96	(70-130)	20	0.92
LCS1	Selenium Total ICAP/MS		20	18.5	ug/L	93	(85-115)		
LCS2	Selenium Total ICAP/MS		20	19.2	ug/L	96	(85-115)	20	3.7
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.69	ug/L	94	(50-150)		
MS_201412120389	Selenium Total ICAP/MS	ND	20	19.7	ug/L	93	(70-130)		
MS2_201412120392	Selenium Total ICAP/MS	ND	20	22.3	ug/L	99	(70-130)		
MSD_201412120389	Selenium Total ICAP/MS	ND	20	20.0	ug/L	94	(70-130)	20	1.5
MSD2_201412120392	Selenium Total ICAP/MS	ND	20	22.4	ug/L	99	(70-130)	20	0.45
LCS1	Silver Total ICAP/MS		50	49.2	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.2	ug/L	96	(85-115)	20	2.3
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MS_201412120389	Silver Total ICAP/MS	ND	50	45.0	ug/L	90	(70-130)		
MS2_201412120392	Silver Total ICAP/MS	ND	50	45.1	ug/L	90	(70-130)		
MSD_201412120389	Silver Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)	20	1.1
MSD2_201412120392	Silver Total ICAP/MS	ND	50	45.4	ug/L	91	(70-130)	20	0.66
LCS1	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	0.50
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201412120389	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MS2_201412120392	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201412120389	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)	20	1.5
MSD2_201412120392	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	0.0
LCS1	Vanadium Total ICAP/MS		100	99.1	ug/L	99	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	97.3	ug/L	97	(85-115)	20	1.8
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.54	ug/L	118	(50-150)		
MS_201412120389	Vanadium Total ICAP/MS	5.6	100	110	ug/L	104	(70-130)		
MS2_201412120392	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)		
MSD_201412120389	Vanadium Total ICAP/MS	5.6	100	113	ug/L	107	(70-130)	20	2.7
MSD2_201412120392	Vanadium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	100	ug/L	100	(85-115)	20	3.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	27.7	ug/L	139	(50-150)		
MS_201412120389	Zinc Total ICAP/MS	ND	100	106	ug/L	94	(70-130)		
MS2_201412120392	Zinc Total ICAP/MS	33	100	127	ug/L	94	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412120389	Zinc Total ICAP/MS	ND	100	107	ug/L	95	(70-130)	20	0.94
MSD2_201412120392	Zinc Total ICAP/MS	33	100	128	ug/L	95	(70-130)	20	0.78
QC Ref# 809995 - Total Kjeldahl Nitrogen by EPA 351.2						Analysis Date: 12/18/2014			
LCS1	Kjeldahl Nitrogen		4.0	4.17	mg/L	104	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	4.14	mg/L	103	(90-110)	20	0.72
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.248	mg/L	124	(50-150)		
MS_201412050338	Kjeldahl Nitrogen	ND	4.0	4.06	mg/L	97	(90-110)		
MS_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.40	mg/L	102	(90-110)		
MSD_201412050338	Kjeldahl Nitrogen	ND	4.0	4.27	mg/L	102	(90-110)	10	5.0
MSD_201412120253	Kjeldahl Nitrogen	0.33	4.0	4.32	mg/L	100	(90-110)	10	1.8
QC Ref# 810490 - ICPMS Metals by EPA 200.8						Analysis Date: 12/18/2014			
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	96.7	ug/L	97	(85-115)	20	1.2
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.765	ug/L	77	(50-150)		
MS_201412190466	Chromium Total ICAP/MS	ND	100	98.4	ug/L	98	(70-130)		
MSD_201412190466	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)	20	1.6
LCS1	Silver Total ICAP/MS		50	48.6	ug/L	97	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	2.6
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.409	ug/L	82	(50-150)		
MS_201412190466	Silver Total ICAP/MS	ND	50	44.9	ug/L	90	(70-130)		
MSD_201412190466	Silver Total ICAP/MS	ND	50	45.1	ug/L	90	(70-130)	20	0.44
QC Ref# 810900 - ICPMS Metals by EPA 200.8						Analysis Date: 12/18/2014			
LCS1	Antimony dissolved ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.12	ug/L	112	(50-150)		
MS_201412090419	Antimony dissolved ICAP/MS		50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony dissolved ICAP/MS		50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony dissolved ICAP/MS		50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony dissolved ICAP/MS		50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Antimony Total ICAP/MS		50	47.6	ug/L	95	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.3	ug/L	97	(85-115)	20	1.5
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.12	ug/L	112	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090419	Antimony Total ICAP/MS	ND	50	47.2	ug/L	94	(70-130)		
MS2_201412090283	Antimony Total ICAP/MS	ND	50	51.9	ug/L	104	(70-130)		
MSD_201412090419	Antimony Total ICAP/MS	ND	50	47.1	ug/L	94	(70-130)	20	0.21
MSD2_201412090283	Antimony Total ICAP/MS	ND	50	52.0	ug/L	104	(70-130)	20	0.19
LCS1	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic dissolved ICAP/MS		20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.3	ug/L	97	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412090419	Arsenic Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)		
MS2_201412090283	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Arsenic Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)	20	1.5
MSD2_201412090283	Arsenic Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Barium dissolved ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium dissolved ICAP/MS		100	157	ug/L	157	(70-130)		
MS2_201412090283	Barium dissolved ICAP/MS		100	173	ug/L	173	(70-130)		
MSD_201412090419	Barium dissolved ICAP/MS		100	155	ug/L	155	(70-130)	20	1.3
MSD2_201412090283	Barium dissolved ICAP/MS		100	176	ug/L	176	(70-130)	20	1.7
LCS1	Barium Total ICAP/MS		100	95.4	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	2.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201412090419	Barium Total ICAP/MS	59	100	157	ug/L	157	(70-130)		
MS2_201412090283	Barium Total ICAP/MS	63	100	173	ug/L	173	(70-130)		
MSD_201412090419	Barium Total ICAP/MS	59	100	155	ug/L	155	(70-130)	20	1.3
MSD2_201412090283	Barium Total ICAP/MS	63	100	176	ug/L	176	(70-130)	20	1.7
LCS1	Beryllium dissolved ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium dissolved ICAP/MS		5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium dissolved ICAP/MS		5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium dissolved ICAP/MS		5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.12	ug/L	102	(85-115)	20	2.4
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.16	ug/L	116	(50-150)		
MS_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.37	ug/L	107	(70-130)		
MS2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.34	ug/L	107	(70-130)		
MSD_201412090419	Beryllium Total ICAP/MS	ND	5.0	5.38	ug/L	108	(70-130)	20	0.19
MSD2_201412090283	Beryllium Total ICAP/MS	ND	5.0	5.30	ug/L	106	(70-130)	20	0.75
LCS1	Cadmium dissolved ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium dissolved ICAP/MS		20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium dissolved ICAP/MS		20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Cadmium Total ICAP/MS		20	19.1	ug/L	95	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	19.5	ug/L	98	(85-115)	20	2.1
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.606	ug/L	121	(50-150)		
MS_201412090419	Cadmium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201412090283	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MSD_201412090419	Cadmium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)	20	1.6
MSD2_201412090283	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Chromium dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium dissolved ICAP/MS		100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium dissolved ICAP/MS		100	124	ug/L	124	(70-130)	20	1.6

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chromium Total ICAP/MS		100	98.7	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.3
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.10	ug/L	110	(50-150)		
MS_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201412090283	Chromium Total ICAP/MS	21	100	122	ug/L	122	(70-130)		
MSD_201412090419	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	0.0
MSD2_201412090283	Chromium Total ICAP/MS	21	100	124	ug/L	124	(70-130)	20	1.6
LCS1	Cobalt dissolved ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt dissolved ICAP/MS		100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)		
MSD_201412090419	Cobalt dissolved ICAP/MS		100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	3.3
LCS1	Cobalt Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	98.7	ug/L	99	(85-115)	20	2.0
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412090419	Cobalt Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201412090283	Cobalt Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)		
MSD_201412090419	Cobalt Total ICAP/MS	ND	100	98.0	ug/L	98	(70-130)	20	1.2
MSD2_201412090283	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)	20	3.3
LCS1	Copper dissolved ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper dissolved ICAP/MS		100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper dissolved ICAP/MS		100	98.2	ug/L	98	(70-130)		
MSD_201412090419	Copper dissolved ICAP/MS		100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper dissolved ICAP/MS		100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Copper Total ICAP/MS		100	94.0	ug/L	94	(85-115)		
LCS2	Copper Total ICAP/MS		100	93.7	ug/L	94	(85-115)	20	0.32
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.97	ug/L	98	(50-150)		
MS_201412090419	Copper Total ICAP/MS	3.1	100	94.3	ug/L	94	(70-130)		
MS2_201412090283	Copper Total ICAP/MS	4.9	100	98.2	ug/L	98	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412090419	Copper Total ICAP/MS	3.1	100	93.7	ug/L	94	(70-130)	20	0.64
MSD2_201412090283	Copper Total ICAP/MS	4.9	100	99.7	ug/L	100	(70-130)	20	1.5
LCS1	Lead dissolved ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead dissolved ICAP/MS		20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead dissolved ICAP/MS		20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Lead Total ICAP/MS		20	19.2	ug/L	96	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.4	ug/L	97	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.628	ug/L	126	(50-150)		
MS_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201412090283	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412090419	Lead Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	0.0
MSD2_201412090283	Lead Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	1.5
LCS1	Molybdenum dissolved ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	19.5	ug/L	<u>20</u>	(85-115)	20	<u>130</u>
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412090419	Molybdenum dissolved ICAP/MS		100	97.4	ug/L	97	(70-130)		
MS2_201412090283	Molybdenum dissolved ICAP/MS		100	98.7	ug/L	99	(70-130)		
MSD_201412090419	Molybdenum dissolved ICAP/MS		100	96.7	ug/L	97	(70-130)	20	0.72
MSD2_201412090283	Molybdenum dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	2.3
LCS1	Molybdenum Total ICAP/MS		100	92.8	ug/L	93	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	94.4	ug/L	94	(85-115)	20	1.7
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	1.82	ug/L	91	(50-150)		
MS_201412090419	Molybdenum Total ICAP/MS	5.3	100	97.4	ug/L	92	(70-130)		
MS2_201412090283	Molybdenum Total ICAP/MS	2.5	100	98.7	ug/L	96	(70-130)		
MSD_201412090419	Molybdenum Total ICAP/MS	5.3	100	96.7	ug/L	91	(70-130)	20	0.72
MSD2_201412090283	Molybdenum Total ICAP/MS	2.5	100	101	ug/L	98	(70-130)	20	2.3
LCS1	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.83	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412090419	Nickel dissolved ICAP/MS		50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel dissolved ICAP/MS		50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel dissolved ICAP/MS		50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel dissolved ICAP/MS		50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)		
LCS2	Nickel Total ICAP/MS		50	46.2	ug/L	92	(85-115)	20	0.0
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.83	ug/L	97	(50-150)		
MS_201412090419	Nickel Total ICAP/MS	ND	50	46.4	ug/L	93	(70-130)		
MS2_201412090283	Nickel Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MSD_201412090419	Nickel Total ICAP/MS	ND	50	45.7	ug/L	91	(70-130)	20	1.5
MSD2_201412090283	Nickel Total ICAP/MS	ND	50	46.9	ug/L	94	(70-130)	20	3.0
LCS1	Selenium dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MRL_CHK	Selenium dissolved ICAP/MS		5.0	2.85	ug/L	57	(50-150)		
MS_201412090419	Selenium dissolved ICAP/MS		20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium dissolved ICAP/MS		20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium dissolved ICAP/MS		20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium dissolved ICAP/MS		20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Selenium Total ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Selenium Total ICAP/MS		20	18.1	ug/L	91	(85-115)	20	6.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.38	ug/L	108	(50-150)		
MS_201412090419	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)		
MS2_201412090283	Selenium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)		
MSD_201412090419	Selenium Total ICAP/MS	ND	20	22.8	ug/L	114	(70-130)	20	1.7
MSD2_201412090283	Selenium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	1.4
LCS1	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium dissolved ICAP/MS		20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium dissolved ICAP/MS		20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium dissolved ICAP/MS		20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.0	ug/L	95	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Thallium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201412090419	Thallium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)		
MS2_201412090283	Thallium Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201412090419	Thallium Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	0.0
MSD2_201412090283	Thallium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)	20	2.0
LCS1	Vanadium Dissolved ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Dissolved ICAP/MS		100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Dissolved ICAP/MS		100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Dissolved ICAP/MS		100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Dissolved ICAP/MS		100	111	ug/L	111	(70-130)	20	0.91
LCS1	Vanadium Total ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	97.8	ug/L	98	(85-115)	20	0.31
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.04	ug/L	101	(50-150)		
MS_201412090419	Vanadium Total ICAP/MS	5.0	100	107	ug/L	107	(70-130)		
MS2_201412090283	Vanadium Total ICAP/MS	5.9	100	110	ug/L	110	(70-130)		
MSD_201412090419	Vanadium Total ICAP/MS	5.0	100	105	ug/L	105	(70-130)	20	1.9
MSD2_201412090283	Vanadium Total ICAP/MS	5.9	100	111	ug/L	111	(70-130)	20	0.91
LCS1	Zinc dissolved ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc dissolved ICAP/MS		100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc dissolved ICAP/MS		100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc dissolved ICAP/MS		100	102	ug/L	102	(70-130)	20	2.0
LCS1	Zinc Total ICAP/MS		100	96.5	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	95.2	ug/L	95	(85-115)	20	1.4
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.2	ug/L	101	(50-150)		
MS_201412090419	Zinc Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MS2_201412090283	Zinc Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201412090419	Zinc Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)	20	1.3
MSD2_201412090283	Zinc Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 810929 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 12/22/2014			
LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.517	mg/L	103	(90-110)	20	1.1
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0534	mg/L	107	(53-118)		
MS_201412230461	Ammonia Nitrogen	ND	0.5	0.546	mg/L	108	(90-110)		
MS2_201412120185	Ammonia Nitrogen	ND	0.5	0.470	mg/L	93	(90-110)		
MSD_201412230461	Ammonia Nitrogen	ND	0.5	0.529	mg/L	105	(90-110)	20	3.2
MSD2_201412120185	Ammonia Nitrogen	ND	0.5	0.457	mg/L	91	(90-110)	20	2.8
QC Ref# 810985 - Total Organic Halides by SW9020/SM5320						Analysis Date: 12/22/2014			
LCS1	Total Organic Halides Rep 1		50	48.5	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	204	ug/L	102	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRLHI	Total Organic Halides Rep 1			7.51	ug/L	0			
MS_201412090527	Total Organic Halides Rep 1	27	50	84.9	ug/L	<u>117</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 1	27	50	54.1	ug/L	<u>55</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.04	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.9	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	196	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRLHI	Total Organic Halides Rep 2			7.37	ug/L	0			
MS_201412090527	Total Organic Halides Rep 2	25	50	84.9	ug/L	<u>119</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 2	25	50	54.1	ug/L	<u>58</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		
QC Ref# 811253 - ICPMS Metals by EPA 200.8						Analysis Date: 12/29/2014			
LCS1	Silver dissolved ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.485	ug/L	97	(50-150)		
MS_201412230354	Silver dissolved ICAP/MS	ND	50	40.4	ug/L	81	(70-130)		
MS2_201412230370	Silver dissolved ICAP/MS	ND	50	18.2	ug/L	<u>36</u>	(70-130)		
MSD_201412230354	Silver dissolved ICAP/MS	ND	50	17.5	ug/L	<u>35</u>	(70-130)	20	<u>79</u>
MSD2_201412230370	Silver dissolved ICAP/MS	ND	50	17.4	ug/L	<u>35</u>	(70-130)	20	4.5
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MRL_CHK	Silver Total ICAP/MS		0.5	0.485	ug/L	97	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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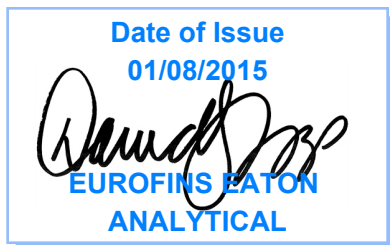
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Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 512998
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
 Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
 P.O. Drawer A
 Olancha, CA 93549

Client ID: CRYSTAL-ROX
 Folder #: 512998
 Project: CGR-OLANCHA
 Sample Group: Wastewater

Attn: Manuel Luna
 Phone: 760-764-1822

Project Manager: David S Tripp
 Phone: (626) 386-1158

The following samples were received from you on **December 18, 2014 at 1135**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201412180239	Fire Pond Sanit.	12/17/2014 0900
	@ICPMS @ICPMS @HAA6 @QUANT2000 @THM524 @VOAPP Alkalinity in CaCO3 units Ammonia Nitrogen Bicarb.Alkalinity as HCO3,calc Biochemical Oxygen Demand,Totl Calcium Total ICAP Chemical Oxygen Demand (COD) Chloride Dissolved Oxygen Field pH Field Specific Conductance Free Chlorine Residual Freight - RUSH Magnesium Total ICAP Nitrate as Nitrogen by IC Nitrite Nitrogen by IC Orthophosphate as P (OPO4) PH (H3=past HT not compliant) RUSH Sodium Total ICAP Specific Conductance Sulfate Surfactants Total Chlorine Residual Total Dissolved Solid (TDS) Total Kjeldahl Nitrogen Total Nitrogen-Calc Total Organic Halogen Total phosphorus as P Total Suspended Solids (TSS)	
201412180240	Travel Blank	12/17/2014 0900
	@VOAPP TB	

Test Description

- @ICPMS -- ICPMS Metals
- @ICPMS -- ICPMS Metals
- @HAA6 -- Haloacetic Acids
- @QUANT2000 -- Quantitray Coliforms
- @THM524 -- Volatile Organics by GCMS
- @VOAPP -- Volatile Organics by EPA 624
- @VOAPP TB -- Volatile Organics by EPA 624



Kit Order for Crystal Geyser Roxane
 David S Tripp is your Eurofins Eaton Analytical Project Manager

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 (626) 386-1100 FAX: (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 98713
 Created By: DST
 Deliver By: 10/10/2014
 STC: Bottle Orders
 Ice Type: W

Client ID: CRYSTAL-ROX
 Project Code: CGR-OLANCHA Bottle Orders
 Group Name: Wastewater
 PO#/JOB#:

Ship Sample Kits to
 Crystal Geyser Roxane
 1210 South Highway 395
 Olancha, CA 93549

 Attn: Manuel Luna - Shipping
 Phone: 760-764-1822
 Fax: 760-764-2861

Send Report to
 Crystal Geyser Roxane
 P.O. Drawer A
 Olancha, CA 93549

 Attn: Manuel Luna
 Phone: 760-764-1822
 Fax: 760-764-2157

Billing Address
 Crystal Geyser Roxane
 P.O. Drawer A
 Olancha, CA 93549

 Attn: Barbie Button
 Phone: 760-764-2885
 Fax: 760-764-2026

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
10	@HAA6	3 40ml amber glass vial 65mg NH4Cl	
10	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1 500ml acid poly 2ml HNO3 (18%)	UN2031
10	@ICPMS, Surfactants	1 500ml poly no preservative	
10	@QUANT2000	1 100ml poly sterilized 0.25ml thio (8%)	
10	@THM524	3 40ml amber glass vial 0.25ml thio (8%)	
10	@VOAPP	4 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
10	@VOAPP TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	1 250ml poly no preservative	
10	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1 250ml poly 0.5ml H2SO4 (50%)	UN1830
10	Biochemical Oxygen Demand Totl	1 1L poly no preservative	
10	Chemical Oxygen Demand (COD)	1 125ml poly 0.5ml H2SO4 (50%)	UN1830
10	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1 125ml poly no preservative	
10	Dissolved Oxygen	1 BOD bottle	
10	Free Chlorine Residual, Total Chlorine Residual	1 125ml amber glass CHL no preservative	
10	Orthophosphate as P	1 125ml poly OPO4 no preservative	
10	Total Dissolved Solid (TDS), Total Suspended Solids (TSS)	1 500ml poly TDS - no preservative	
10	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments

SHIPPING: Please deliver ASAP, but no later than 10/10/14 - 10 separate coolers.

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395

Origin ID: IYKA



J142214092303uv

Olancho, CA 93549

Ship Date: 17DEC14
Act/Wgt: 25.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
David
Eurofins Labs
750 ROYAL OAKS DR

MONROVIA, CA 91016

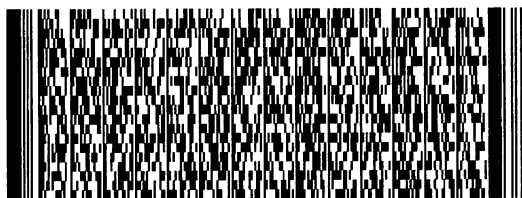
BILL SENDER

Ref #
Invoice #
PO #
Dept #

THU - 18 DEC AA
STANDARD OVERNIGHT

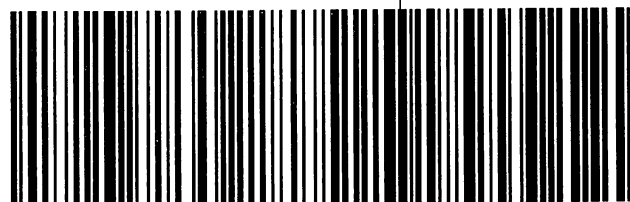
TRK# 7722 8220 9430

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After printing this label:

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Hits
 Report: 512998

Crystal Geysers Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/18/2014 1135

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201412180239	<u>Fire Pond Sanit.</u>				
12/19/2014 13:56	24 Hour Total Coliform Confm (Large Wells)		49		PW	1
12/19/2014 13:56	24 Hour Total Coliform Confm (Small Wells)		47		PW	1
12/20/2014 3:50	2-Butanone (MEK)		5.3		ug/L	5
12/19/2014 01:38	Alkalinity in CaCO3 units		28		mg/L	2
12/23/2014 17:46	Antimony Total ICAP/MS		1.1	6	ug/L	1
12/22/2014 18:27	Arsenic Total ICAP/MS		3.0	10	ug/L	1
12/22/2014 18:27	Barium Total ICAP/MS		55	2000	ug/L	2
12/19/2014 10:49	Bicarb. Alkalinity as HCO3calc		34		mg/L	2
12/19/2014 19:13	Calcium Total ICAP		19		mg/L	10
12/19/2014 10:17	Chemical Oxygen Demand (COD)		18		mg/L	5
12/18/2014 20:17	Chloride		2.9	250	mg/L	1
12/22/2014 18:27	Chromium Total ICAP/MS		1.4	100	ug/L	1
12/22/2014 18:27	Copper Total ICAP/MS		21	1300	ug/L	2
12/18/2014 14:26	Dissolved Oxygen		8.3		mg/L	0.5
12/17/2014 09:00	Field pH		6.37		Units	0.1
12/17/2014 09:00	Field Specific Conductance		201		umho/cm	
12/19/2014 19:13	Magnesium Total ICAP		1.4		mg/L	1
12/18/2014 20:17	Nitrate as Nitrogen by IC		4.0	10	mg/L	0.1
12/18/2014 16:53	Orthophosphate as P		14		mg/L	0.25
12/19/2014 01:38	PH (H3=past HT not compliant)		6.6		Units	0.1
12/19/2014 19:13	Sodium Total ICAP		24		mg/L	20
12/19/2014 01:38	Specific Conductance, 25 C		220		umho/cm	2
12/18/2014 20:17	Sulfate		37	250	mg/L	0.5
12/19/2014 10:38	Surfactants		3.7	0.5	mg/L	0.5
12/19/2014 13:56	Total Coliform Bacteria		2400		MPN/100 mL	1
12/19/2014 14:50	Total Dissolved Solids (TDS)		170	500	mg/L	10
12/30/2014 14:30	Total Nitrogen-Calc		4.0		mg/L	0.2
12/22/2014 23:11	Total Organic Halides Average		14		ug/L	10
12/22/2014 23:11	Total Organic Halides Rep 1		13		ug/L	10
12/22/2014 23:11	Total Organic Halides Rep 2		15		ug/L	10
12/19/2014 18:55	Total phosphorus as P		14		mg/L	0.4
12/22/2014 18:27	Vanadium Total ICAP/MS		4.0		ug/L	3
12/22/2014 18:27	Zinc Total ICAP/MS		41	5000	ug/L	20

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
 Tel: (626) 386-1100
 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 512998

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
Fire Pond Sanit. (201412180239)						Sampled on 12/17/2014 0900		
2510B/ SW9050 - Field Specific Conductance								
	12/17/2014	09:00	810262	(2510B/ SW9050)	Field Specific Conductance	201	umho/cm	1
EPA 150.1 - Field pH								
	12/17/2014	09:00	810261	(EPA 150.1)	Field pH	6.37	Units	0.1 1
EPA 200.8 - ICPMS Metals								
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/23/2014	17:46	811010	(EPA 200.8)	Antimony Total ICAP/MS	1.1	ug/L	1 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Arsenic Total ICAP/MS	3.0	ug/L	1 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Barium dissolved ICAP/MS	ND	ug/L	80 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Barium Total ICAP/MS	55	ug/L	2 1
12/18/2014	01/06/2015	11:05	812459	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	20 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Chromium Total ICAP/MS	1.4	ug/L	1 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	80 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Copper Total ICAP/MS	21	ug/L	2 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	20 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	80 40
12/18/2014	12/23/2014	17:46	811010	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	200 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	200 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5 1
12/18/2014	12/29/2014	15:56	811253	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5 1
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	40 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1 1
12/18/2014	01/06/2015	11:38	812459	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	120 40
12/18/2014	12/22/2014	18:27	810768	(EPA 200.8)	Vanadium Total ICAP/MS	4.0	ug/L	3 1

Rounding on totals after summation.
 (c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
12/18/2014	01/06/2015	11:38 812459	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	800	40
12/18/2014	12/22/2014	18:27 810768	(EPA 200.8)	Zinc Total ICAP/MS	41	ug/L	20	1
EPA 200.7 - ICP Metals								
12/18/2014	12/19/2014	19:13 810496	(EPA 200.7)	Calcium Total ICAP	19	mg/L	10	20
12/18/2014	12/19/2014	19:13 810496	(EPA 200.7)	Magnesium Total ICAP	1.4	mg/L	1	20
12/18/2014	12/19/2014	19:13 810496	(EPA 200.7)	Sodium Total ICAP	24	mg/L	20	20
SM 9223B - Quantitray Coliforms								
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	24 Hour E. Coli Confirmed (Large Wells)	ND	PW	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	24 Hour E. Coli Confirmed (Small Wells)	ND	PW	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	24 Hour Total Coliform Confm (Large Wells)	49	PW	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	24 Hour Total Coliform Confm (Small Wells)	47	PW	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	Total Coliform Bacteria	2400	MPN/100 mL	1	1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	E. Coli Bacteria (P/A)	A			1
12/18/2014	12/19/2014	13:56 810388	(SM 9223B)	Total Coliform Bacteria (P/A)	P			1
SW9020/SM5320 - Total Organic Halides								
12/22/2014	12/22/2014	23:11 810985	(SW9020/SM5320)	Total Organic Halides Average	14	ug/L	10	1
12/22/2014	12/22/2014	23:11 810985	(SW9020/SM5320)	Total Organic Halides Rep 1	13	ug/L	10	1
12/22/2014	12/22/2014	23:11 810985	(SW9020/SM5320)	Total Organic Halides Rep 2	15	ug/L	10	1
EPA 353-351 - Total Nitrogen-Calc								
	12/30/2014	14:30	(EPA 353-351)	Total Nitrogen-Calc	4.0	mg/L	0.2	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	12/19/2014	10:49	(SM2330B)	Bicarb.Alkalinity as HCO3calc	34	mg/L	2	1
SM 6251B - Haloacetic Acids								
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	1,2,3-Trichloropropane	102	%		1
12/19/2014	12/19/2014	16:28 810252	(SM 6251B)	2,3-Dibromopropionic acid	121	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	12/18/2014	20:17 810240	(EPA 300.0)	Nitrate as Nitrogen by IC	4.0	mg/L	0.1	1

Rounding on totals after summation.
(c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
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1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	12/18/2014	20:17 810240	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	12/18/2014	20:17 810243	(EPA 300.0)	Chloride	2.9	mg/L	1	1
	12/18/2014	20:17 810243	(EPA 300.0)	Sulfate	37	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	12/19/2014	18:55 810615	(SM4500-PE/EPA 365.1)	Total phosphorus as P	14	mg/L	0.4	20
EPA 351.2 - Total Kjeldahl Nitrogen								
	12/30/2014	11:39 811758	(EPA 351.2)	Kjeldahl Nitrogen	ND (B4)	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	12/22/2014	14:34 810929	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	1,2-Dichloroethane-d4	105	%		1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	4-Bromofluorobenzene	107	%		1
12/19/2014	12/20/2014	3:50 810620	(EPA 524.2)	Toluene-d8	99	%		1
EPA 624 - Volatile Organics by EPA 624								
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	2-Butanone (MEK)	5.3	ug/L	5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Acetone	ND	ug/L	10	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50 810623	(EPA 624)	Bromoform	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 512998

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	1,2-Dichloroethane-d4	105	%		1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	4-Bromofluorobenzene	107	%		1
12/19/2014	12/20/2014	3:50	810623	(EPA 624)	Toluene-d8	99	%		1
SM 2320B - Alkalinity in CaCO3 units									
	12/19/2014	01:38	810192	(SM 2320B)	Alkalinity in CaCO3 units	28	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									
12/19/2014	12/19/2014	14:50	810400	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	170	mg/L	10	1

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Laboratory Data
 Report: 512998

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM4500 - Dissolved Oxygen								
	12/18/2014	14:26 810156	(SM4500)	Dissolved Oxygen	8.3 (H3)	mg/L	0.5	1
SM4500-HB - PH (H3=past HT not compliant)								
	12/19/2014	01:38 810193	(SM4500-HB)	PH (H3=past HT not compliant)	6.6	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	12/22/2014	14:56 810613	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
SM 5540C/EPA 425.1 - Surfactants								
	12/19/2014	10:38 810426	(SM 5540C/EPA 425.1)	Surfactants	3.7 (HA)	mg/L	0.5	10
EPA 410.4 - Chemical Oxygen Demand (COD)								
	12/19/2014	10:17 810288	(EPA 410.4)	Chemical Oxygen Demand (COD)	18	mg/L	5	1
SM2510B - Specific Conductance								
	12/19/2014	01:38 810194	(SM2510B)	Specific Conductance, 25 C	220	umho/cm	2	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	12/18/2014	12:25 810033	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	ND (KA)	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	12/18/2014	16:53 810214	(4500P-E/365.1)	Orthophosphate as P	14	mg/L	0.25	25
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	12/19/2014	10:00 810758	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	12/19/2014	10:00 810592	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

Travel Blank (201412180240)

Sampled on 12/17/2014 0900

EPA 624 - Volatile Organics by EPA 624

12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,1-Dichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,1-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,2-Dichloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	1,2-Dichloropropane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	2-Butanone (MEK)	ND	ug/L	5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	2-Hexanone	ND	ug/L	10	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	Acetone	ND	ug/L	10	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	Acrolein (Screen)	ND	ug/L	25	1
12/19/2014	12/20/2014	3:28 810623	(EPA 624)	Acrylonitrile (Screen)	ND	ug/L	25	1

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 Report: 512998

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 12/18/2014 1135

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Benzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Bromodichloromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Bromoform	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Carbon disulfide	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Carbon Tetrachloride	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Chlorobenzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Chlorodibromomethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Chloroethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Dichlorodifluoromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Dichloromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Ethyl benzene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	m,p-Xylenes	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	o-Xylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Styrene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Tetrahydrofuran	ND	ug/L	10	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Toluene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Total 1,3-Dichloropropene	ND	ug/L	1	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Trichlorofluoromethane	ND	ug/L	0.5	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Vinyl Acetate	ND	ug/L	10	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Vinyl chloride (VC)	ND	ug/L	0.3	1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	1,2-Dichloroethane-d4	102	%		1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	4-Bromofluorobenzene	102	%		1
12/19/2014	12/20/2014	3:28	810623	(EPA 624)	Toluene-d8	93	%		1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Folder Comments

Sample # 201412180239, Crystal Rox Fire Pond Sanit., Got an extremely high MBAS result of 1.832 Abs, or 3.4525 mg/L. Sample had to be diluted, but the dilution wasn't made until after the hold time was up. Sample was diluted 9:1 with DI Water and got a result of 0.205 Abs, 3.6727 mg/L after dilution is factored in. Corrective Action Taken: Sample was flagged and reported H2

Flags Legend:

B4 - Target analyte detected in blank at or above method acceptance criteria.

H3 - Sample was received and/ or analysis requested past holding time.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

HA - Initial analysis within holding time. Reanalysis was past holding time.

KA - The seed depletion was outside the method and laboratory acceptance limits. The reported result is an estimated value.

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Crystal Geysler Roxane

QC Ref # 810033 - Biochemical Oxygen Demand,Totl	Analysis Date: 12/18/2014
201412180239 Fire Pond Sanit.	Analyzed by: MXT
QC Ref # 810156 - Dissolved Oxygen	Analysis Date: 12/18/2014
201412180239 Fire Pond Sanit.	Analyzed by: MXT
QC Ref # 810192 - Alkalinity in CaCO3 units	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: 6Q4
QC Ref # 810193 - PH (H3=past HT not compliant)	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: 6Q4
QC Ref # 810194 - Specific Conductance	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: 6Q4
QC Ref # 810214 - Orthophosphate as P (OPO4)	Analysis Date: 12/18/2014
201412180239 Fire Pond Sanit.	Analyzed by: MIA8
QC Ref # 810240 - Nitrate, Nitrite by EPA 300.0	Analysis Date: 12/18/2014
201412180239 Fire Pond Sanit.	Analyzed by: CYP
QC Ref # 810243 - Chloride, Sulfate by EPA 300.0	Analysis Date: 12/18/2014
201412180239 Fire Pond Sanit.	Analyzed by: CYP
QC Ref # 810252 - Haloacetic Acids	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: A4H
QC Ref # 810261 - Field pH	Analysis Date: 12/17/2014
201412180239 Fire Pond Sanit.	Analyzed by: ADT
QC Ref # 810262 - Field Specific Conductance	Analysis Date: 12/17/2014
201412180239 Fire Pond Sanit.	Analyzed by: ADT
QC Ref # 810288 - Chemical Oxygen Demand (COD)	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: 6Q4
QC Ref # 810388 - Quantitray Coliforms	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: YE5A
QC Ref # 810400 - Total Dissolved Solids (TDS)	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: JRF
QC Ref # 810426 - Surfactants	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: MIA8
QC Ref # 810496 - ICP Metals	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: NINA
QC Ref # 810592 - Free Chlorine Residual (H3=past HT not complian	Analysis Date: 12/19/2014
201412180239 Fire Pond Sanit.	Analyzed by: NJR
QC Ref # 810613 - Total Suspended Solids (TSS)	Analysis Date: 12/22/2014
201412180239 Fire Pond Sanit.	Analyzed by: JRF

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Crystal Geysler Roxane

QC Ref # 810615 - Total phosphorus as P (T-P)

201412180239 Fire Pond Sanit.

Analysis Date: 12/19/2014

Analyzed by: KXS

QC Ref # 810620 - Volatile Organics by GCMS

201412180239 Fire Pond Sanit.

Analysis Date: 12/20/2014

Analyzed by: KAM

QC Ref # 810623 - Volatile Organics by EPA 624

201412180239 Fire Pond Sanit.

201412180240 Travel Blank

Analysis Date: 12/20/2014

Analyzed by: KAM

Analyzed by: KAM

QC Ref # 810758 - Total Chlorine Residual (H3=past HT not complian

201412180239 Fire Pond Sanit.

Analysis Date: 12/19/2014

Analyzed by: NJR

QC Ref # 810768 - ICPMS Metals

201412180239 Fire Pond Sanit.

Analysis Date: 12/22/2014

Analyzed by: AZS

QC Ref # 810929 - Ammonia Nitrogen

201412180239 Fire Pond Sanit.

Analysis Date: 12/22/2014

Analyzed by: MYH

QC Ref # 810985 - Total Organic Halides

201412180239 Fire Pond Sanit.

Analysis Date: 12/22/2014

Analyzed by: KXS

QC Ref # 811010 - ICPMS Metals

201412180239 Fire Pond Sanit.

Analysis Date: 12/23/2014

Analyzed by: AZS

QC Ref # 811253 - ICPMS Metals

201412180239 Fire Pond Sanit.

Analysis Date: 12/29/2014

Analyzed by: AZS

QC Ref # 811758 - Total Kjeldahl Nitrogen

201412180239 Fire Pond Sanit.

Analysis Date: 12/30/2014

Analyzed by: KXS

QC Ref # 812459 - ICPMS Metals

201412180239 Fire Pond Sanit.

201412180239 Fire Pond Sanit.

Analysis Date: 01/06/2015

Analyzed by: SXX

Analyzed by: SXX

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 810033 - Biochemical Oxygen Demand,Totl by SM5210B 405.1						Analysis Date: 12/18/2014			
DUP1_201412170785	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
DUP2_201412180237	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	186	mg/L	94	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				
QC Ref# 810156 - Dissolved Oxygen by SM4500						Analysis Date: 12/18/2014			
MBLK	Dissolved Oxygen			<0.5	mg/L				
QC Ref# 810192 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 12/18/2014			
LCS1	Alkalinity in CaCO3 units		100	99.9	mg/L	100	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	100	mg/L	100	(90-110)	20	0.10
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.05	mg/L	102	(50-150)		
MS_201412170239	Alkalinity in CaCO3 units	7.8	100	118	mg/L	110	(80-120)		
MS_201412170243	Alkalinity in CaCO3 units	6.1	100	118	mg/L	112	(80-120)		
MSD_201412170243	Alkalinity in CaCO3 units	6.1	100	117	mg/L	111	(80-120)	20	0.85
MSD_201412170239	Alkalinity in CaCO3 units	7.8	100	116	mg/L	108	(80-120)	20	1.7
QC Ref# 810193 - PH (H3=past HT not compliant) by SM4500-HB						Analysis Date: 12/18/2014			
DUP_201412170243	PH (H3=past HT not compliant)	6.4	0.01	6.39	Units		(0-20)	20	0.0
DUP_201412170239	PH (H3=past HT not compliant)	6.5	0.01	6.53	Units		(0-20)	20	0.61
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 810194 - Specific Conductance by SM2510B						Analysis Date: 12/18/2014			
DUP1_201412170239	Specific Conductance	42	2	41.4	umho/cm		(0-20)	20	0.24
DUP1_201412170243	Specific Conductance	47	2	46.9	umho/cm		(0-20)	20	0.43
LCS1	Specific Conductance		1000	995	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	998	umho/cm	100	(95-105)	20	0.30
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.6	1.90	umho/cm	117	(50-150)		
QC Ref# 810214 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 12/18/2014			
LCS1	Orthophosphate as P		0.25	0.263	mg/L	105	(90-110)		
LCS2	Orthophosphate as P		0.25	0.251	mg/L	100	(90-110)	20	4.7
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0110	mg/L	110	(50-150)		
MS_201412180199	Orthophosphate as P	0.073	0.5	0.600	mg/L	105	(90-110)		
MSD_201412180199	Orthophosphate as P	0.073	0.5	0.597	mg/L	105	(90-110)	20	0.50

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 810240 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 12/18/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.46	mg/L	99	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.42	mg/L	97	(90-110)	20	1.6
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0452	mg/L	90	(50-150)		
MS_201412160025	Nitrate as Nitrogen by IC	ND	1.3	1.26	mg/L	98	(80-120)		
MS_201412180491	Nitrate as Nitrogen by IC	8.9	1.3	11.3	mg/L	94	(80-120)		
MSD_201412160025	Nitrate as Nitrogen by IC	ND	1.3	1.27	mg/L	98	(80-120)	20	0.79
MSD_201412180491	Nitrate as Nitrogen by IC	8.9	1.3	11.2	mg/L	93	(80-120)	20	0.89
LCS1	Nitrite Nitrogen by IC		1.0	1.02	mg/L	102	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.01	mg/L	101	(90-110)	20	0.99
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0478	mg/L	96	(50-150)		
MS_201412180491	Nitrite Nitrogen by IC	ND	0.5	1.00	mg/L	101	(80-120)		
MS_201412160025	Nitrite Nitrogen by IC	ND	0.5	0.514	mg/L	103	(80-120)		
MSD_201412180491	Nitrite Nitrogen by IC	ND	0.5	1.00	mg/L	100	(80-120)	20	1
MSD_201412160025	Nitrite Nitrogen by IC	ND	0.5	0.519	mg/L	104	(80-120)	20	0.97
QC Ref# 810243 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 12/18/2014			
LCS1	Chloride		25	25.1	mg/L	100	(90-110)		
LCS2	Chloride		25	24.7	mg/L	99	(90-110)	20	1.6
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.426	mg/L	85	(50-150)		
MS_201412180546	Chloride	ND	13	12.2	mg/L	97	(80-120)		
MS_201412180545	Chloride	19	13	43.9	mg/L	101	(80-120)		
MSD_201412180546	Chloride	ND	13	12.2	mg/L	98	(80-120)	20	0.0
MSD_201412180545	Chloride	19	13	43.9	mg/L	101	(80-120)	20	0.0
LCS1	Sulfate		50	51.8	mg/L	104	(90-110)		
LCS2	Sulfate		50	51.0	mg/L	102	(90-110)	20	1.6
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.950	mg/L	95	(50-150)		
MRLLW	Sulfate		0.25	0.235	mg/L	94	(50-150)		
MS_201412180545	Sulfate	46	25	96.7	mg/L	101	(80-120)		
MS_201412180546	Sulfate	ND	25	25.8	mg/L	103	(80-120)		
MSD_201412180545	Sulfate	46	25	96.6	mg/L	101	(80-120)	20	0.10
MSD_201412180546	Sulfate	ND	25	25.9	mg/L	104	(80-120)	20	0.39
QC Ref# 810252 - Haloacetic Acids by SM 6251B						Analysis Date: 12/19/2014			
CCCH	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	1,2,3-Trichloropropane (I)			102	%	102	(80-130)		
DUP1_201412110475	1,2,3-Trichloropropane (I)			100	%	100	(80-120)		
DUP2_201412160755	1,2,3-Trichloropropane (I)			103	%	103	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			104	%	104	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			103	%	103	(80-120)		
MS1_201412110489	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MS2_201412110409	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			101	%	101	(70-130)		
DUP1_201412110475	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
DUP2_201412160755	2,3-Dibromopropionic acid (S)			117	%	117	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			97.1	%	97	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			100	%	100	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			99.5	%	99	(70-130)		
MS1_201412110489	2,3-Dibromopropionic acid (S)			110	%	110	(70-130)		
MS2_201412110409	2,3-Dibromopropionic acid (S)			108	%	108	(70-130)		
CCCH	Bromochloroacetic acid		32	34.2	ug/L	107	(85-115)		
CCCM	Bromochloroacetic acid		20	21.0	ug/L	105	(85-115)		
DUP1_201412110475	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412160755	Bromochloroacetic acid	7.8		7.52	ug/L		(0-20)	20	4.1
LCS3	Bromochloroacetic acid		8.0	8.16	ug/L	102	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	1.35	ug/L	135	(50-150)		
MS1_201412110489	Bromochloroacetic acid	ND	20	21.3	ug/L	105	(84-123)		
MS2_201412110409	Bromochloroacetic acid	ND	32	34.6	ug/L	108	(84-123)		
CCCH	Dibromoacetic acid		32	33.6	ug/L	105	(85-115)		
CCCM	Dibromoacetic acid		20	20.1	ug/L	101	(85-115)		
DUP1_201412110475	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412160755	Dibromoacetic acid	1.6		1.59	ug/L		(0-20)		
LCS3	Dibromoacetic acid		8.0	7.56	ug/L	95	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.976	ug/L	98	(50-150)		
MS1_201412110489	Dibromoacetic acid	ND	20	21.4	ug/L	104	(84-122)		
MS2_201412110409	Dibromoacetic acid	ND	32	34.4	ug/L	108	(84-122)		
CCCH	Dichloroacetic acid		32	32.1	ug/L	100	(85-115)		
CCCM	Dichloroacetic acid		20	19.0	ug/L	95	(85-115)		
DUP1_201412110475	Dichloroacetic acid	ND		ND	ug/L		(0-20)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP2_201412160755	Dichloroacetic acid	30		27.9	ug/L		(0-20)	20	6.9
LCS3	Dichloroacetic acid		8.0	6.95	ug/L	87	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	1.10	ug/L	110	(50-150)		
MS1_201412110489	Dichloroacetic acid	ND	20	19.8	ug/L	99	(79-123)		
MS2_201412110409	Dichloroacetic acid	ND	32	32.5	ug/L	101	(79-123)		
CCCH	Monobromoacetic acid		32	33.9	ug/L	106	(85-115)		
CCCM	Monobromoacetic acid		20	20.2	ug/L	101	(85-115)		
DUP1_201412110475	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412160755	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	7.55	ug/L	94	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	1.08	ug/L	108	(50-150)		
MS1_201412110489	Monobromoacetic acid	ND	20	20.4	ug/L	102	(81-122)		
MS2_201412110409	Monobromoacetic acid	ND	32	33.8	ug/L	106	(81-122)		
CCCH	Monochloroacetic acid		32	34.6	ug/L	108	(85-115)		
CCCM	Monochloroacetic acid		20	19.7	ug/L	98	(85-115)		
DUP1_201412110475	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412160755	Monochloroacetic acid	2.5		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	8.04	ug/L	101	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	2.02	ug/L	101	(50-150)		
MS1_201412110489	Monochloroacetic acid	ND	20	20.3	ug/L	101	(72-126)		
MS2_201412110409	Monochloroacetic acid	ND	32	34.1	ug/L	107	(72-126)		
CCCH	Trichloroacetic acid		32	34.2	ug/L	107	(85-115)		
CCCM	Trichloroacetic acid		20	20.6	ug/L	103	(85-115)		
DUP1_201412110475	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201412160755	Trichloroacetic acid	13		12.3	ug/L		(0-20)	20	3.8
LCS3	Trichloroacetic acid		8.0	7.17	ug/L	90	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.928	ug/L	93	(50-150)		
MS1_201412110489	Trichloroacetic acid	ND	20	21.7	ug/L	108	(82-124)		
MS2_201412110409	Trichloroacetic acid	ND	32	35.2	ug/L	110	(82-124)		

QC Ref# 810288 - Chemical Oxygen Demand (COD) by EPA 410.4

Analysis Date: 12/19/2014

LCS1	Chemical Oxygen Demand (COD)	50	52.0	mg/L	104	(90-110)		
LCS2	Chemical Oxygen Demand (COD)	50	52.0	mg/L	104	(90-110)	20	0.0
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L			
MRL_CHK	Chemical Oxygen Demand (COD)	5.0	4.00	mg/L	80	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412170744	Chemical Oxygen Demand (COD)	5.0	50	53.0	mg/L	96	(90-110)		
MSD_201412170744	Chemical Oxygen Demand (COD)	5.0	50	53.0	mg/L	96	(90-110)	20	0.0
QC Ref# 810400 - Total Dissolved Solids (TDS) by E160.1/SM2540C						Analysis Date: 12/19/2014			
DUP_201412180239	Total Dissolved Solid (TDS)	170		174	mg/L		(0-20)	20	1.2
DUP_201412160482	Total Dissolved Solid (TDS)	980		984	mg/L		(0-20)	20	0.20
LCS1	Total Dissolved Solid (TDS)		175	152	mg/L	87	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	660	mg/L	94	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		
QC Ref# 810426 - Surfactants by SM 5540C/EPA 425.1						Analysis Date: 12/19/2014			
LCS1	Surfactants		0.2	0.208	mg/L	104	(90-110)		
LCS2	Surfactants		0.2	0.185	mg/L	93	(90-110)	20	12
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0525	mg/L	105	(50-150)		
MS_201412180552	Surfactants	0.052	0.2	0.231	mg/L	89	(80-120)		
MSD_201412180552	Surfactants	0.052	0.2	0.231	mg/L	89	(80-120)	20	0.0
QC Ref# 810496 - ICP Metals by EPA 200.7						Analysis Date: 12/19/2014			
LCS1	Calcium Total ICAP		100	97.1	mg/L	97	(85-115)		
LCS2	Calcium Total ICAP		100	99.9	mg/L	100	(85-115)	20	2.8
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.984	mg/L	98	(50-150)		
MS_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)		
MS2_201412170727	Calcium Total ICAP	60	100	156	mg/L	96	(70-130)		
MSD_201412170726	Calcium Total ICAP	51	100	152	mg/L	101	(70-130)	20	0.0
MSD2_201412170727	Calcium Total ICAP	60	100	163	mg/L	102	(70-130)	20	4.4
LCS1	Magnesium Total ICAP		40	41.1	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		40	41.5	mg/L	104	(85-115)	20	0.97
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201412170726	Magnesium Total ICAP	11	40	52.9	mg/L	105	(70-130)		
MS2_201412170727	Magnesium Total ICAP	13	40	53.6	mg/L	102	(70-130)		
MSD_201412170726	Magnesium Total ICAP	11	40	52.4	mg/L	104	(70-130)	20	0.95
MSD2_201412170727	Magnesium Total ICAP	13	40	56.2	mg/L	108	(70-130)	20	4.7
LCS1	Sodium Total ICAP		100	100	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		100	101	mg/L	101	(85-115)	20	1
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.08	mg/L	108	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412170726	Sodium Total ICAP	72	100	177	mg/L	104	(70-130)		
MS2_201412170727	Sodium Total ICAP	73	100	169	mg/L	96	(70-130)		
MSD_201412170726	Sodium Total ICAP	72	100	174	mg/L	102	(70-130)	20	1.7
MSD2_201412170727	Sodium Total ICAP	73	100	174	mg/L	102	(70-130)	20	2.9

QC Ref# 810592 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH

Analysis Date: 12/19/2014

LCS1	Free Chlorine Residual		1.0	0.980	mg/L	98	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.950	mg/L	95	(85-115)	20	3.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.100	mg/L	100	(50-150)		

QC Ref# 810613 - Total Suspended Solids (TSS) by SM 2540D

Analysis Date: 12/22/2014

DUP_201412170184	Total Suspended Solids (TSS)	92	10	92.0	mg/L		(0-10)	10	0.0
DUP_201412150603	Total Suspended Solids (TSS)	110	10	110	mg/L		(0-10)	10	3.7
LCS1	Total Suspended Solids (TSS)		175	182	mg/L	104	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	184	mg/L	105	(71-107)	20	1.1
MBLK	Total Suspended Solids (TSS)			<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	12.0	mg/L	120	(50-150)		

QC Ref# 810615 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1

Analysis Date: 12/19/2014

LCS1	Total phosphorus as P		0.4	0.386	mg/L	97	(90-110)		
LCS2	Total phosphorus as P		0.4	0.389	mg/L	97	(90-110)	20	0.77
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0243	mg/L	121	(50-150)		
MS_201412160285	Total phosphorus as P	0.046	0.4	0.413	mg/L	92	(90-110)		
MS_201412170373	Total phosphorus as P	ND	0.4	0.401	mg/L	98	(90-110)		
MSD_201412160285	Total phosphorus as P	0.046	0.4	0.465	mg/L	105	(90-110)	20	12
MSD_201412170373	Total phosphorus as P	ND	0.4	0.399	mg/L	97	(90-110)	20	0.50

QC Ref# 810620 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 12/20/2014

LCS1	1,2-Dichloroethane-d4 (S)			94.6	%	95	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			95.0	%	95	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			91.8	%	92	(70-130)		
LCS1	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS2	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MBLK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
LCS1	Bromodichloromethane		5.0	4.70	ug/L	94	(70-130)		
LCS2	Bromodichloromethane		5.0	4.56	ug/L	91	(70-130)	20	3.0
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	4.43	ug/L	89	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromoform		5.0	4.07	ug/L	81	(70-130)	20	8.5
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	4.39	ug/L	88	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.48	ug/L	90	(70-130)	20	2.0
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	5.20	ug/L	104	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.95	ug/L	99	(70-130)	20	4.9
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			97.2	%	97	(70-130)		
LCS2	Toluene-d8 (S)			101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			96.0	%	96	(70-130)		

QC Ref# 810623 - Volatile Organics by EPA 624 by EPA 624

Analysis Date: 12/19/2014

LCS1	1,1,1-Trichloroethane		20	18.3	ug/L	91	(79-121)		
LCS2	1,1,1-Trichloroethane		20	18.3	ug/L	92	(79-121)	20	0.0
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412180239	1,1,1-Trichloroethane	ND	10	12.8	ug/L	128	(75-144)		
LCS1	1,1,2,2-Tetrachloroethane		20	18.9	ug/L	95	(77-126)		
LCS2	1,1,2,2-Tetrachloroethane		20	20.5	ug/L	102	(77-126)	20	8.1
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.620	ug/L	124	(50-150)		
MS_201412180239	1,1,2,2-Tetrachloroethane	ND	10	11.1	ug/L	111	(79-130)		
LCS1	1,1,2-Trichloroethane		20	17.2	ug/L	86	(79-116)		
LCS2	1,1,2-Trichloroethane		20	16.8	ug/L	84	(79-116)	20	2.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201412180239	1,1,2-Trichloroethane	ND	10	10.6	ug/L	106	(76-129)		
LCS1	1,1-Dichloroethane		20	17.5	ug/L	88	(77-129)		
LCS2	1,1-Dichloroethane		20	17.8	ug/L	89	(77-129)	20	2.3
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201412180239	1,1-Dichloroethane	ND	10	11.6	ug/L	116	(70-146)		
LCS1	1,1-Dichloroethylene		20	17.4	ug/L	87	(77-139)		
LCS2	1,1-Dichloroethylene		20	18.0	ug/L	90	(77-139)	20	3.4
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.480	ug/L	96	(50-150)		
MS_201412180239	1,1-Dichloroethylene	ND	10	12.2	ug/L	122	(75-134)		
LCS1	1,2-Dichloroethane		20	18.3	ug/L	91	(81-122)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2-Dichloroethane		20	17.8	ug/L	89	(81-122)	20	2.2
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412180239	1,2-Dichloroethane	ND	10	11.6	ug/L	116	(75-135)		
LCS1	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			89.4	%	89	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			91.8	%	92	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			98.0	%	98	(70-130)		
MS_201412180239	1,2-Dichloroethane-d4 (S)			97.0	%	97	(70-130)		
LCS1	1,2-Dichloropropane		20	17.3	ug/L	87	(77-118)		
LCS2	1,2-Dichloropropane		20	17.5	ug/L	87	(77-118)	20	1.1
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.450	ug/L	90	(50-150)		
MS_201412180239	1,2-Dichloropropane	ND	10	10.6	ug/L	106	(73-132)		
LCS1	2-Butanone (MEK)		200	163	ug/L	82	(65-122)		
LCS2	2-Butanone (MEK)		200	160	ug/L	80	(65-122)	20	1.9
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.64	ug/L	93	(50-150)		
MS_201412180239	2-Butanone (MEK)	5.3	100	92.7	ug/L	87	(59-129)		
LCS1	2-Hexanone		200	178	ug/L	89	(72-128)		
LCS2	2-Hexanone		200	172	ug/L	86	(72-128)	20	3.4
MBLK	2-Hexanone			<2.5	ug/L				
MRL_CHK	2-Hexanone		5.0	4.27	ug/L	85	(50-150)		
MS_201412180239	2-Hexanone	ND	100	102	ug/L	102	(71-134)		
LCS1	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS2	4-Bromofluorobenzene (S)			108	%	108	(70-130)		
MBLK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
MS_201412180239	4-Bromofluorobenzene (S)			108	%	108	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		200	174	ug/L	87	(76-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		200	170	ug/L	85	(76-130)	20	2.3
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.18	ug/L	84	(50-150)		
MS_201412180239	4-Methyl-2-Pentanone (MIBK)	ND	100	99.6	ug/L	100	(75-136)		
LCS1	Acetone		200	159	ug/L	79	(47-117)		
LCS2	Acetone		200	165	ug/L	83	(47-117)	20	3.7
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	6.67	ug/L	133	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412180239	Acetone	ND	100	90.3	ug/L	87	(37-119)		
MBLK	Acrolein (Screen)			<25	ug/L				
MBLK	Acrylonitrile (Screen)			<25	ug/L				
LCS1	Benzene		20	18.2	ug/L	91	(60-156)		
LCS2	Benzene		20	18.2	ug/L	91	(60-156)	20	0.0
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.520	ug/L	104	(50-150)		
MS_201412180239	Benzene	ND	10	11.4	ug/L	114	(76-133)		
LCS1	Bromodichloromethane		20	17.3	ug/L	86	(77-113)		
LCS2	Bromodichloromethane		20	16.4	ug/L	82	(77-113)	20	5.3
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.510	ug/L	102	(50-150)		
MS_201412180239	Bromodichloromethane	ND	10	10.3	ug/L	103	(77-130)		
LCS1	Bromoform		20	17.0	ug/L	85	(54-134)		
LCS2	Bromoform		20	17.4	ug/L	87	(54-134)	20	2.9
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.440	ug/L	88	(50-150)		
MS_201412180239	Bromoform	ND	10	8.22	ug/L	82	(51-140)		
LCS1	Bromomethane (Methyl Bromide)		20	17.6	ug/L	88	(67-144)		
LCS2	Bromomethane (Methyl Bromide)		20	18.2	ug/L	91	(67-144)	20	2.8
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.550	ug/L	110	(50-150)		
MS_201412180239	Bromomethane (Methyl Bromide)	ND	10	12.3	ug/L	123	(55-147)		
LCS1	Carbon disulfide		20	15.0	ug/L	75	(63-131)		
LCS2	Carbon disulfide		20	15.6	ug/L	78	(63-131)	20	3.9
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.550	ug/L	110	(50-150)		
MS_201412180239	Carbon disulfide	ND	10	10.1	ug/L	101	(65-155)		
LCS1	Carbon Tetrachloride		20	18.2	ug/L	91	(73-127)		
LCS2	Carbon Tetrachloride		20	18.2	ug/L	91	(73-127)	20	0.55
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.450	ug/L	90	(50-150)		
MS_201412180239	Carbon Tetrachloride	ND	10	13.2	ug/L	132	(71-151)		
LCS1	Chlorobenzene		20	18.8	ug/L	94	(57-166)		
LCS2	Chlorobenzene		20	18.3	ug/L	92	(57-166)	20	2.7
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.510	ug/L	102	(50-150)		
MS_201412180239	Chlorobenzene	ND	10	11.6	ug/L	116	(77-132)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chlorodibromomethane		20	16.8	ug/L	84	(77-113)		
LCS2	Chlorodibromomethane		20	15.7	ug/L	78	(77-113)	20	6.8
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
MS_201412180239	Chlorodibromomethane	ND	10	9.59	ug/L	96	(68-136)		
LCS1	Chloroethane		20	16.0	ug/L	80	(70-133)		
LCS2	Chloroethane		20	15.7	ug/L	79	(70-133)	20	1.9
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201412180239	Chloroethane	ND	10	11.1	ug/L	111	(45-180)		
LCS1	Chloroform (Trichloromethane)		20	17.2	ug/L	86	(78-117)		
LCS2	Chloroform (Trichloromethane)		20	17.6	ug/L	88	(78-117)	20	2.3
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
MS_201412180239	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	112	(76-133)		
LCS1	Chloromethane(Methyl Chloride)		20	16.6	ug/L	83	(78-134)		
LCS2	Chloromethane(Methyl Chloride)		20	16.7	ug/L	83	(78-134)	20	0.60
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.450	ug/L	90	(50-150)		
MS_201412180239	Chloromethane(Methyl Chloride)	ND	10	11.7	ug/L	117	(58-143)		
LCS1	cis-1,2-Dichloroethylene		20	17.8	ug/L	89	(80-114)		
LCS2	cis-1,2-Dichloroethylene		20	18.1	ug/L	91	(80-114)	20	1.7
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.580	ug/L	116	(50-150)		
MS_201412180239	cis-1,2-Dichloroethylene	ND	10	11.4	ug/L	114	(78-133)		
LCS1	cis-1,3-Dichloropropene		20	18.0	ug/L	90	(68-123)		
LCS2	cis-1,3-Dichloropropene		20	18.0	ug/L	90	(68-123)	20	0.0
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
MS_201412180239	cis-1,3-Dichloropropene	ND	10	10.8	ug/L	109	(65-120)		
LCS1	Dichlorodifluoromethane		20	13.7	ug/L	69	(46-165)		
LCS2	Dichlorodifluoromethane		20	14.8	ug/L	74	(46-165)	20	7.7
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.460	ug/L	92	(50-150)		
MS_201412180239	Dichlorodifluoromethane	ND	10	11.7	ug/L	117	(30-169)		
LCS1	Dichloromethane		20	16.7	ug/L	84	(77-121)		
LCS2	Dichloromethane		20	16.8	ug/L	84	(77-121)	20	1.2
MBLK	Dichloromethane			<0.25	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dichloromethane		0.5	0.520	ug/L	104	(50-150)		
MS_201412180239	Dichloromethane	ND	10	11.1	ug/L	111	(75-132)		
LCS1	Ethyl benzene		20	18.9	ug/L	94	(79-122)		
LCS2	Ethyl benzene		20	18.6	ug/L	93	(79-122)	20	1.6
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.470	ug/L	94	(50-150)		
MS_201412180239	Ethyl benzene	ND	10	11.6	ug/L	116	(68-146)		
LCS1	m,p-Xylenes		40	37.9	ug/L	95	(82-123)		
LCS2	m,p-Xylenes		40	37.6	ug/L	94	(82-123)	20	0.53
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.880	ug/L	88	(50-150)		
MS_201412180239	m,p-Xylenes	ND	20	22.1	ug/L	110	(79-142)		
LCS1	m-Dichlorobenzene (1,3-DCB)		20	22.3	ug/L	112	(76-124)		
LCS2	m-Dichlorobenzene (1,3-DCB)		20	23.6	ug/L	118	(76-124)	20	5.7
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.660	ug/L	132	(50-150)		
MS_201412180239	m-Dichlorobenzene (1,3-DCB)	ND	10	13.5	ug/L	135	(76-139)		
LCS1	Methyl Tert-butyl ether (MTBE)		20	18.1	ug/L	90	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		20	18.4	ug/L	92	(70-130)	20	1.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201412180239	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	106	(70-130)		
LCS1	o-Dichlorobenzene (1,2-DCB)		20	17.8	ug/L	89	(79-118)		
LCS2	o-Dichlorobenzene (1,2-DCB)		20	19.1	ug/L	96	(79-118)	20	7.0
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.550	ug/L	110	(50-150)		
MS_201412180239	o-Dichlorobenzene (1,2-DCB)	ND	10	11.2	ug/L	112	(80-125)		
LCS1	o-Xylene		20	19.4	ug/L	97	(79-120)		
LCS2	o-Xylene		20	18.8	ug/L	94	(79-120)	20	3.1
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.440	ug/L	88	(50-150)		
MS_201412180239	o-Xylene	ND	10	10.7	ug/L	107	(91-123)		
LCS1	p-Dichlorobenzene (1,4-DCB)		20	21.6	ug/L	108	(74-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		20	23.3	ug/L	116	(74-130)	20	7.6
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.650	ug/L	130	(50-150)		
MS_201412180239	p-Dichlorobenzene (1,4-DCB)	ND	10	13.3	ug/L	133	(71-145)		
LCS1	Styrene		20	18.4	ug/L	92	(77-125)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Styrene		20	17.8	ug/L	89	(77-125)	20	3.9
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.640	ug/L	128	(50-150)		
MS_201412180239	Styrene	ND	10	8.10	ug/L	81	(66-142)		
LCS1	Tetrachloroethylene (PCE)		20	18.5	ug/L	93	(79-122)		
LCS2	Tetrachloroethylene (PCE)		20	18.4	ug/L	92	(79-122)	20	0.54
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.540	ug/L	108	(50-150)		
MS_201412180239	Tetrachloroethylene (PCE)	ND	10	12.6	ug/L	126	(72-146)		
LCS1	Tetrahydrofuran		200	190	ug/L	95	(67-130)		
LCS2	Tetrahydrofuran		200	190	ug/L	95	(67-130)	20	0.0
MBLK	Tetrahydrofuran			<5.0	ug/L				
MRL_CHK	Tetrahydrofuran		5.0	5.04	ug/L	101	(50-150)		
MS_201412180239	Tetrahydrofuran	ND	100	102	ug/L	102	(68-134)		
LCS1	Toluene		20	18.5	ug/L	93	(80-118)		
LCS2	Toluene		20	19.1	ug/L	95	(80-118)	20	3.2
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.550	ug/L	110	(50-150)		
MS_201412180239	Toluene	ND	10	11.5	ug/L	115	(66-143)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			95.8	%	96	(70-130)		
MBLK	Toluene-d8 (S)			96.0	%	96	(70-130)		
MRL_CHK	Toluene-d8 (S)			98.2	%	98	(70-130)		
MS_201412180239	Toluene-d8 (S)			102	%	102	(70-130)		
LCS1	trans-1,2-Dichloroethylene		20	18.0	ug/L	90	(82-122)		
LCS2	trans-1,2-Dichloroethylene		20	18.4	ug/L	92	(82-122)	20	2.2
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.410	ug/L	82	(50-150)		
MS_201412180239	trans-1,2-Dichloroethylene	ND	10	12.0	ug/L	119	(74-138)		
LCS1	trans-1,3-Dichloropropene		20	18.8	ug/L	94	(64-126)		
LCS2	trans-1,3-Dichloropropene		20	18.5	ug/L	93	(64-126)	20	2.1
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201412180239	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(61-127)		
LCS1	Trichloroethylene (TCE)		20	17.6	ug/L	88	(78-119)		
LCS2	Trichloroethylene (TCE)		20	17.8	ug/L	89	(78-119)	20	1.1
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.550	ug/L	110	(50-150)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412180239	Trichloroethylene (TCE)	ND	10	11.7	ug/L	117	(71-139)		
LCS1	Trichlorofluoromethane		20	17.3	ug/L	87	(70-145)		
LCS2	Trichlorofluoromethane		20	17.3	ug/L	86	(70-145)	20	0.0
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201412180239	Trichlorofluoromethane	ND	10	13.4	ug/L	134	(63-161)		
LCS1	Vinyl Acetate		100	90.9	ug/L	91	(72-136)		
LCS2	Vinyl Acetate		100	89.8	ug/L	90	(72-136)	20	1.2
MBLK	Vinyl Acetate			<0.25	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.69	ug/L	108	(50-150)		
MS_201412180239	Vinyl Acetate	ND	50	40.8	ug/L	82	(55-146)		
LCS1	Vinyl chloride (VC)		20	15.6	ug/L	78	(66-140)		
LCS2	Vinyl chloride (VC)		20	16.4	ug/L	82	(66-140)	20	5.0
MBLK	Vinyl chloride (VC)			<0.25	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.510	ug/L	102	(50-150)		
MS_201412180239	Vinyl chloride (VC)	ND	10	11.7	ug/L	117	(56-159)		

QC Ref# 810758 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G

Analysis Date: 12/19/2014

LCS1	Total Chlorine Residual		1.0	1.01	mg/L	101	(85-115)		
LCS2	Total Chlorine Residual		1.0	0.990	mg/L	99	(85-115)	20	2.0
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		

QC Ref# 810768 - ICPMS Metals by EPA 200.8

Analysis Date: 12/22/2014

LCS1	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.4	ug/L	97	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201412170788	Antimony Total ICAP/MS	ND	50	50.2	ug/L	99	(70-130)		
MS2_201412170794	Antimony Total ICAP/MS	ND	50	49.2	ug/L	98	(70-130)		
MSD_201412170788	Antimony Total ICAP/MS	ND	50	49.6	ug/L	98	(70-130)	20	1.2
MSD2_201412170794	Antimony Total ICAP/MS	ND	50	48.0	ug/L	96	(70-130)	20	2.3
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	98	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.940	ug/L	94	(50-150)		
MS_201412170788	Arsenic Total ICAP/MS	1.4	20	21.5	ug/L	101	(70-130)		
MS2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.5	ug/L	103	(70-130)		
MSD_201412170788	Arsenic Total ICAP/MS	1.4	20	21.0	ug/L	98	(70-130)	20	2.4

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201412170794	Arsenic Total ICAP/MS	1.9	20	22.0	ug/L	101	(70-130)	20	2.3
LCS1	Barium Total ICAP/MS		100	97.2	ug/L	97	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.6	ug/L	98	(85-115)	20	0.41
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.95	ug/L	97	(50-150)		
MS_201412170788	Barium Total ICAP/MS	59	100	153	ug/L	94	(70-130)		
MS2_201412170794	Barium Total ICAP/MS	59	100	156	ug/L	97	(70-130)		
MSD_201412170788	Barium Total ICAP/MS	59	100	155	ug/L	96	(70-130)	20	1.3
MSD2_201412170794	Barium Total ICAP/MS	59	100	150	ug/L	91	(70-130)	20	3.9
LCS1	Beryllium Total ICAP/MS		5.0	4.77	ug/L	95	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.84	ug/L	97	(85-115)	20	1.5
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.931	ug/L	93	(50-150)		
MS_201412170788	Beryllium Total ICAP/MS	ND	5.0	4.96	ug/L	99	(70-130)		
MS2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.93	ug/L	99	(70-130)		
MSD_201412170788	Beryllium Total ICAP/MS	ND	5.0	5.33	ug/L	106	(70-130)	20	7.2
MSD2_201412170794	Beryllium Total ICAP/MS	ND	5.0	4.98	ug/L	100	(70-130)	20	1.6
LCS1	Cadmium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.5	ug/L	102	(85-115)	20	0.97
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.516	ug/L	103	(50-150)		
MS_201412170788	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)		
MS2_201412170794	Cadmium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201412170788	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	0.99
MSD2_201412170794	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	98	(70-130)	20	3.0
LCS1	Chromium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.0	ug/L	97	(85-115)	20	0.92
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.31	ug/L	131	(50-150)		
MS_201412170788	Chromium Total ICAP/MS	6.9	100	103	ug/L	96	(70-130)		
MS2_201412170794	Chromium Total ICAP/MS	4.2	100	100	ug/L	96	(70-130)		
MSD_201412170788	Chromium Total ICAP/MS	6.9	100	101	ug/L	94	(70-130)	20	2.0
MSD2_201412170794	Chromium Total ICAP/MS	4.2	100	97.6	ug/L	93	(70-130)	20	2.4
LCS1	Cobalt Total ICAP/MS		100	95.8	ug/L	96	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	96.2	ug/L	96	(85-115)	20	0.42
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	1.94	ug/L	97	(50-150)		
MS_201412170788	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201412170794	Cobalt Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)		
MSD_201412170788	Cobalt Total ICAP/MS	ND	100	92.6	ug/L	92	(70-130)	20	2.0
MSD2_201412170794	Cobalt Total ICAP/MS	ND	100	92.7	ug/L	93	(70-130)	20	2.5
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	101	ug/L	101	(85-115)	20	2.0
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.09	ug/L	105	(50-150)		
MS_201412170788	Copper Total ICAP/MS	ND	100	96.8	ug/L	96	(70-130)		
MS2_201412170794	Copper Total ICAP/MS	ND	100	95.9	ug/L	94	(70-130)		
MSD_201412170788	Copper Total ICAP/MS	ND	100	97.0	ug/L	96	(70-130)	20	0.31
MSD2_201412170794	Copper Total ICAP/MS	ND	100	94.9	ug/L	93	(70-130)	20	1.1
LCS1	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.510	ug/L	102	(50-150)		
MS_201412170788	Lead Total ICAP/MS	ND	20	20.8	ug/L	103	(70-130)		
MS2_201412170794	Lead Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201412170788	Lead Total ICAP/MS	ND	20	20.6	ug/L	102	(70-130)	20	0.97
MSD2_201412170794	Lead Total ICAP/MS	ND	20	20.1	ug/L	100	(70-130)	20	2.5
LCS1	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	108	ug/L	108	(85-115)	20	0.93
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	104	(50-150)		
MS_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)		
MS2_201412170794	Molybdenum Total ICAP/MS	4	100	115	ug/L	111	(70-130)		
MSD_201412170788	Molybdenum Total ICAP/MS	5.4	100	113	ug/L	108	(70-130)	20	0.0
MSD2_201412170794	Molybdenum Total ICAP/MS	4	100	114	ug/L	110	(70-130)	20	0.87
LCS1	Nickel Total ICAP/MS		50	51.7	ug/L	103	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.2	ug/L	102	(85-115)	20	0.97
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.12	ug/L	102	(50-150)		
MS_201412170788	Nickel Total ICAP/MS	8	50	57.1	ug/L	98	(70-130)		
MS2_201412170794	Nickel Total ICAP/MS	ND	50	53.3	ug/L	99	(70-130)		
MSD_201412170788	Nickel Total ICAP/MS	8	50	56.1	ug/L	96	(70-130)	20	1.8
MSD2_201412170794	Nickel Total ICAP/MS	ND	50	52.6	ug/L	97	(70-130)	20	0.76
LCS1	Selenium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.50
MBLK	Selenium Total ICAP/MS			<5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Selenium Total ICAP/MS		5.0	5.07	ug/L	101	(50-150)		
MS_201412170788	Selenium Total ICAP/MS	ND	20	20.8	ug/L	99	(70-130)		
MS2_201412170794	Selenium Total ICAP/MS	ND	20	20.6	ug/L	99	(70-130)		
MSD_201412170788	Selenium Total ICAP/MS	ND	20	19.7	ug/L	94	(70-130)	20	5.4
MSD2_201412170794	Selenium Total ICAP/MS	ND	20	20.2	ug/L	96	(70-130)	20	3.9
LCS1	Silver Total ICAP/MS		50	48.4	ug/L	97	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.3	ug/L	97	(85-115)	20	0.21
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.484	ug/L	97	(50-150)		
MS_201412170788	Silver Total ICAP/MS	ND	50	46.0	ug/L	92	(70-130)		
MS2_201412170794	Silver Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MSD_201412170788	Silver Total ICAP/MS	ND	50	45.7	ug/L	91	(70-130)	20	0.65
MSD2_201412170794	Silver Total ICAP/MS	ND	50	45.2	ug/L	90	(70-130)	20	1.8
LCS1	Thallium Total ICAP/MS		20	19.5	ug/L	97	(85-115)		
LCS2	Thallium Total ICAP/MS		20	19.6	ug/L	98	(85-115)	20	0.51
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	0.955	ug/L	96	(50-150)		
MS_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MS2_201412170794	Thallium Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MSD_201412170788	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	0.50
MSD2_201412170794	Thallium Total ICAP/MS	ND	20	19.5	ug/L	98	(70-130)	20	2.5
LCS1	Vanadium Total ICAP/MS		100	94.8	ug/L	95	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	95.4	ug/L	95	(85-115)	20	0.63
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	2.74	ug/L	91	(50-150)		
MS_201412170788	Vanadium Total ICAP/MS	ND	100	98.9	ug/L	97	(70-130)		
MS2_201412170794	Vanadium Total ICAP/MS	5	100	100	ug/L	95	(70-130)		
MSD_201412170788	Vanadium Total ICAP/MS	ND	100	97.8	ug/L	96	(70-130)	20	1.1
MSD2_201412170794	Vanadium Total ICAP/MS	5	100	99.0	ug/L	94	(70-130)	20	0.90
LCS1	Zinc Total ICAP/MS		100	114	ug/L	114	(85-115)		
LCS2	Zinc Total ICAP/MS		100	111	ug/L	111	(85-115)	20	2.7
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	27.5	ug/L	138	(50-150)		
MS_201412170788	Zinc Total ICAP/MS	ND	100	111	ug/L	98	(70-130)		
MS2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)		
MSD_201412170788	Zinc Total ICAP/MS	ND	100	108	ug/L	95	(70-130)	20	2.7
MSD2_201412170794	Zinc Total ICAP/MS	ND	100	104	ug/L	95	(70-130)	20	3.9

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 810929 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 12/22/2014			
LCS1	Ammonia Nitrogen		0.5	0.523	mg/L	105	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.517	mg/L	103	(90-110)	20	1.1
MBLK	Ammonia Nitrogen			<0.025	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0534	mg/L	107	(53-118)		
MS_201412230461	Ammonia Nitrogen	ND	0.5	0.546	mg/L	108	(90-110)		
MS2_201412120185	Ammonia Nitrogen	ND	0.5	0.470	mg/L	93	(90-110)		
MSD_201412230461	Ammonia Nitrogen	ND	0.5	0.529	mg/L	105	(90-110)	20	3.2
MSD2_201412120185	Ammonia Nitrogen	ND	0.5	0.457	mg/L	91	(90-110)	20	2.8
QC Ref# 810985 - Total Organic Halides by SW9020/SM5320						Analysis Date: 12/22/2014			
LCS1	Total Organic Halides Rep 1		50	48.5	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	204	ug/L	102	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRLHI	Total Organic Halides Rep 1			7.51	ug/L	0			
MS_201412090527	Total Organic Halides Rep 1	27	50	84.9	ug/L	<u>117</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 1	27	50	54.1	ug/L	<u>55</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.04	ug/L	101	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.9	ug/L	98	(85-115)		
LCS2	Total Organic Halides Rep 2		200	196	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRLHI	Total Organic Halides Rep 2			7.37	ug/L	0			
MS_201412090527	Total Organic Halides Rep 2	25	50	84.9	ug/L	<u>119</u>	(90-110)		
MSD_201412090527	Total Organic Halides Rep 2	25	50	54.1	ug/L	<u>58</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.06	ug/L	101	(97-103)		
QC Ref# 811010 - ICPMS Metals by EPA 200.8						Analysis Date: 12/23/2014			
LCS1	Antimony Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.0	ug/L	100	(85-115)	20	0.80
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.19	ug/L	119	(50-150)		
MS_201412230677	Antimony Total ICAP/MS	ND	50	50.3	ug/L	100	(70-130)		
MSD_201412230677	Antimony Total ICAP/MS	ND	50	50.8	ug/L	101	(70-130)	20	0.99
LCS1	Molybdenum Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	107	ug/L	107	(85-115)	20	2.8
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201412230677	Molybdenum Total ICAP/MS	5.1	100	116	ug/L	111	(70-130)		
MSD_201412230677	Molybdenum Total ICAP/MS	5.1	100	118	ug/L	113	(70-130)	20	1.7

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 811253 - ICPMS Metals by EPA 200.8						Analysis Date: 12/29/2014			
LCS1	Silver dissolved ICAP/MS		50	48.5	ug/L	97	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.485	ug/L	97	(50-150)		
MS_201412230354	Silver dissolved ICAP/MS	ND	50	40.4	ug/L	81	(70-130)		
MS2_201412230370	Silver dissolved ICAP/MS	ND	50	18.2	ug/L	<u>36</u>	(70-130)		
MSD_201412230354	Silver dissolved ICAP/MS	ND	50	17.5	ug/L	<u>35</u>	(70-130)	20	<u>79</u>
MSD2_201412230370	Silver dissolved ICAP/MS	ND	50	17.4	ug/L	<u>35</u>	(70-130)	20	4.5
LCS2	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	2.0
MRL_CHK	Silver Total ICAP/MS		0.5	0.485	ug/L	97	(50-150)		
QC Ref# 811758 - Total Kjeldahl Nitrogen by EPA 351.2						Analysis Date: 12/30/2014			
LCS1	Kjeldahl Nitrogen		4.0	3.97	mg/L	99	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.99	mg/L	100	(90-110)	20	0.50
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.299	mg/L	150	(50-150)		
MS_201412180409	Kjeldahl Nitrogen	ND	4.0	3.07	mg/L	<u>77</u>	(90-110)		
MS_201412180239	Kjeldahl Nitrogen	ND	4.0	4.09	mg/L	98	(90-110)		
MSD_201412180239	Kjeldahl Nitrogen	ND	4.0	4.09	mg/L	98	(90-110)	10	0.0
MSD_201412180409	Kjeldahl Nitrogen	ND	4.0	3.64	mg/L	91	(90-110)	10	<u>17</u>
QC Ref# 812459 - ICPMS Metals by EPA 200.8						Analysis Date: 01/06/2015			
LCS1	Antimony dissolved ICAP/MS		50	51.0	ug/L	102	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	50.8	ug/L	102	(85-115)	20	0.39
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.20	ug/L	120	(50-150)		
MS_201412190424	Antimony dissolved ICAP/MS	ND	50	50.0	ug/L	100	(70-130)		
MSD_201412190424	Antimony dissolved ICAP/MS	ND	50	48.8	ug/L	97	(70-130)	20	2.4
LCS1	Antimony Total ICAP/MS		50	51.0	ug/L	102	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.8	ug/L	102	(85-115)	20	0.39
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.20	ug/L	120	(50-150)		
MS_201412190424	Antimony Total ICAP/MS	ND	50	50.0	ug/L	100	(70-130)		
MS2_201412300947	Antimony Total ICAP/MS	ND	50	47.5	ug/L	95	(70-130)		
MSD_201412190424	Antimony Total ICAP/MS	ND	50	48.8	ug/L	97	(70-130)	20	2.4
MSD2_201412300947	Antimony Total ICAP/MS	ND	50	47.5	ug/L	95	(70-130)	20	0.0
LCS1	Arsenic dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201412190424	Arsenic dissolved ICAP/MS	ND	20	21.5	ug/L	106	(70-130)		
MSD_201412190424	Arsenic dissolved ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	1.4
LCS1	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	19.7	ug/L	99	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201412190424	Arsenic Total ICAP/MS	ND	20	21.5	ug/L	106	(70-130)		
MS2_201412300947	Arsenic Total ICAP/MS	ND	20	21.7	ug/L	106	(70-130)		
MSD_201412190424	Arsenic Total ICAP/MS	ND	20	21.2	ug/L	105	(70-130)	20	1.4
MSD2_201412300947	Arsenic Total ICAP/MS	ND	20	21.8	ug/L	106	(70-130)	20	0.46
LCS1	Barium dissolved ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	97.4	ug/L	98	(85-115)	20	0.41
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	1.91	ug/L	96	(50-150)		
MS_201412190424	Barium dissolved ICAP/MS	64	100	157	ug/L	93	(70-130)		
MSD_201412190424	Barium dissolved ICAP/MS	64	100	153	ug/L	89	(70-130)	20	2.6
LCS1	Barium Total ICAP/MS		100	97.9	ug/L	98	(85-115)		
LCS2	Barium Total ICAP/MS		100	97.4	ug/L	98	(85-115)	20	0.41
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	1.91	ug/L	96	(50-150)		
MS_201412190424	Barium Total ICAP/MS	64	100	157	ug/L	93	(70-130)		
MS2_201412300947	Barium Total ICAP/MS	33	100	125	ug/L	92	(70-130)		
MSD_201412190424	Barium Total ICAP/MS	64	100	153	ug/L	89	(70-130)	20	2.6
MSD2_201412300947	Barium Total ICAP/MS	33	100	125	ug/L	92	(70-130)	20	0.0
LCS1	Beryllium dissolved ICAP/MS		5.0	5.20	ug/L	104	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	5.22	ug/L	104	(85-115)	20	0.38
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201412190424	Beryllium dissolved ICAP/MS	ND	5.0	5.26	ug/L	105	(70-130)		
MSD_201412190424	Beryllium dissolved ICAP/MS	ND	5.0	5.40	ug/L	107	(70-130)	20	2.6
LCS1	Beryllium Total ICAP/MS		5.0	5.20	ug/L	104	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.22	ug/L	104	(85-115)	20	0.38
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201412190424	Beryllium Total ICAP/MS	ND	5.0	5.26	ug/L	105	(70-130)		
MS2_201412300947	Beryllium Total ICAP/MS	ND	5.0	5.60	ug/L	112	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201412190424	Beryllium Total ICAP/MS	ND	5.0	5.40	ug/L	107	(70-130)	20	2.6
MSD2_201412300947	Beryllium Total ICAP/MS	ND	5.0	5.53	ug/L	110	(70-130)	20	1.3
LCS1	Cadmium dissolved ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.3	ug/L	102	(85-115)	20	0.0
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.530	ug/L	106	(50-150)		
MS_201412190424	Cadmium dissolved ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MSD_201412190424	Cadmium dissolved ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	1.1
LCS1	Cadmium Total ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.3	ug/L	102	(85-115)	20	0.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.530	ug/L	106	(50-150)		
MS_201412190424	Cadmium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MS2_201412300947	Cadmium Total ICAP/MS	ND	20	19.3	ug/L	96	(70-130)		
MSD_201412190424	Cadmium Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)	20	1.1
MSD2_201412300947	Cadmium Total ICAP/MS	ND	20	19.1	ug/L	96	(70-130)	20	1.0
LCS1	Chromium dissolved ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	0.982	ug/L	98	(50-150)		
MS_201412190424	Chromium dissolved ICAP/MS	18	100	115	ug/L	97	(70-130)		
MSD_201412190424	Chromium dissolved ICAP/MS	18	100	113	ug/L	95	(70-130)	20	1.8
LCS1	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.982	ug/L	98	(50-150)		
MS_201412190424	Chromium Total ICAP/MS	18	100	115	ug/L	97	(70-130)		
MS2_201412300947	Chromium Total ICAP/MS	1.2	100	97.6	ug/L	96	(70-130)		
MSD_201412190424	Chromium Total ICAP/MS	18	100	113	ug/L	95	(70-130)	20	1.8
MSD2_201412300947	Chromium Total ICAP/MS	1.2	100	95.0	ug/L	94	(70-130)	20	2.7
LCS1	Cobalt dissolved ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	104	ug/L	103	(85-115)	20	0.97
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.05	ug/L	102	(50-150)		
MS_201412190424	Cobalt dissolved ICAP/MS	ND	100	92.9	ug/L	93	(70-130)		
MSD_201412190424	Cobalt dissolved ICAP/MS	ND	100	91.6	ug/L	92	(70-130)	20	1.4
LCS1	Cobalt Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	104	ug/L	103	(85-115)	20	0.97

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.05	ug/L	102	(50-150)		
MS_201412190424	Cobalt Total ICAP/MS	ND	100	92.9	ug/L	93	(70-130)		
MS2_201412300947	Cobalt Total ICAP/MS	ND	100	93.9	ug/L	94	(70-130)		
MSD_201412190424	Cobalt Total ICAP/MS	ND	100	91.6	ug/L	92	(70-130)	20	1.4
MSD2_201412300947	Cobalt Total ICAP/MS	ND	100	92.2	ug/L	92	(70-130)	20	1.8
LCS1	Copper dissolved ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	1.46	ug/L	73	(50-150)		
MS_201412190424	Copper dissolved ICAP/MS	ND	100	87.1	ug/L	87	(70-130)		
MSD_201412190424	Copper dissolved ICAP/MS	ND	100	85.8	ug/L	85	(70-130)	20	1.5
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.97
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.46	ug/L	73	(50-150)		
MS_201412190424	Copper Total ICAP/MS	ND	100	87.1	ug/L	87	(70-130)		
MS2_201412300947	Copper Total ICAP/MS	ND	100	88.0	ug/L	88	(70-130)		
MSD_201412190424	Copper Total ICAP/MS	ND	100	85.8	ug/L	85	(70-130)	20	1.5
MSD2_201412300947	Copper Total ICAP/MS	ND	100	87.8	ug/L	88	(70-130)	20	0.23
LCS1	Lead dissolved ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	1.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.497	ug/L	99	(50-150)		
MS_201412190424	Lead dissolved ICAP/MS	ND	20	17.9	ug/L	89	(70-130)		
MSD_201412190424	Lead dissolved ICAP/MS	ND	20	17.7	ug/L	88	(70-130)	20	1.1
LCS1	Lead Total ICAP/MS		20	20.0	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	1.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	99	(50-150)		
MS_201412190424	Lead Total ICAP/MS	ND	20	17.9	ug/L	89	(70-130)		
MS2_201412300947	Lead Total ICAP/MS	ND	20	18.3	ug/L	90	(70-130)		
MSD_201412190424	Lead Total ICAP/MS	ND	20	17.7	ug/L	88	(70-130)	20	1.1
MSD2_201412300947	Lead Total ICAP/MS	ND	20	18.1	ug/L	89	(70-130)	20	1.1
LCS1	Molybdenum dissolved ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.12	ug/L	106	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412190424	Molybdenum dissolved ICAP/MS	2.6	100	96.8	ug/L	94	(70-130)		
MSD_201412190424	Molybdenum dissolved ICAP/MS	2.6	100	94.9	ug/L	92	(70-130)	20	2.0
LCS1	Molybdenum Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.12	ug/L	106	(50-150)		
MS_201412190424	Molybdenum Total ICAP/MS	2.6	100	96.8	ug/L	94	(70-130)		
MS2_201412300947	Molybdenum Total ICAP/MS	2.2	100	95.4	ug/L	93	(70-130)		
MSD_201412190424	Molybdenum Total ICAP/MS	2.6	100	94.9	ug/L	92	(70-130)	20	2.0
MSD2_201412300947	Molybdenum Total ICAP/MS	2.2	100	95.8	ug/L	94	(70-130)	20	0.42
LCS1	Nickel dissolved ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	4.99	ug/L	100	(50-150)		
MS_201412190424	Nickel dissolved ICAP/MS	ND	50	43.4	ug/L	86	(70-130)		
MSD_201412190424	Nickel dissolved ICAP/MS	ND	50	42.9	ug/L	85	(70-130)	20	1.2
LCS1	Nickel Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.8	ug/L	100	(85-115)	20	1
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.99	ug/L	100	(50-150)		
MS_201412190424	Nickel Total ICAP/MS	ND	50	43.4	ug/L	86	(70-130)		
MS2_201412300947	Nickel Total ICAP/MS	ND	50	44.7	ug/L	89	(70-130)		
MSD_201412190424	Nickel Total ICAP/MS	ND	50	42.9	ug/L	85	(70-130)	20	1.2
MSD2_201412300947	Nickel Total ICAP/MS	ND	50	44.0	ug/L	87	(70-130)	20	1.6
LCS1	Selenium dissolved ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Selenium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.96
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.21	ug/L	104	(50-150)		
MS_201412190424	Selenium dissolved ICAP/MS	ND	20	22.0	ug/L	104	(70-130)		
MSD_201412190424	Selenium dissolved ICAP/MS	ND	20	22.2	ug/L	105	(70-130)	20	0.91
LCS1	Selenium Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.96
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.21	ug/L	104	(50-150)		
MS_201412190424	Selenium Total ICAP/MS	ND	20	22.0	ug/L	104	(70-130)		
MS2_201412300947	Selenium Total ICAP/MS	ND	20	20.8	ug/L	102	(70-130)		
MSD_201412190424	Selenium Total ICAP/MS	ND	20	22.2	ug/L	105	(70-130)	20	0.91
MSD2_201412300947	Selenium Total ICAP/MS	ND	20	20.0	ug/L	98	(70-130)	20	3.9

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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1 800 566 LABS (1 800 566 5227)

Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Thallium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201412190424	Thallium dissolved ICAP/MS	ND	20	18.5	ug/L	92	(70-130)		
MSD_201412190424	Thallium dissolved ICAP/MS	ND	20	18.2	ug/L	91	(70-130)	20	1.1
LCS1	Thallium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	1
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201412190424	Thallium Total ICAP/MS	ND	20	18.5	ug/L	92	(70-130)		
MS2_201412300947	Thallium Total ICAP/MS	ND	20	18.7	ug/L	93	(70-130)		
MSD_201412190424	Thallium Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)	20	1.1
MSD2_201412300947	Thallium Total ICAP/MS	ND	20	18.5	ug/L	93	(70-130)	20	1.1
LCS1	Vanadium Dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.01	ug/L	100	(50-150)		
MS_201412190424	Vanadium Dissolved ICAP/MS	5.6	100	104	ug/L	98	(70-130)		
MSD_201412190424	Vanadium Dissolved ICAP/MS	5.6	100	102	ug/L	97	(70-130)	20	1.9
LCS1	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.0
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.01	ug/L	100	(50-150)		
MS_201412190424	Vanadium Total ICAP/MS	5.6	100	104	ug/L	98	(70-130)		
MS2_201412300947	Vanadium Total ICAP/MS	4.1	100	101	ug/L	97	(70-130)		
MSD_201412190424	Vanadium Total ICAP/MS	5.6	100	102	ug/L	97	(70-130)	20	1.9
MSD2_201412300947	Vanadium Total ICAP/MS	4.1	100	99.3	ug/L	95	(70-130)	20	1.7
LCS1	Zinc dissolved ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	1.6
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	20.1	ug/L	100	(50-150)		
MS_201412190424	Zinc dissolved ICAP/MS	ND	100	95.3	ug/L	94	(70-130)		
MSD_201412190424	Zinc dissolved ICAP/MS	ND	100	94.1	ug/L	93	(70-130)	20	1.3
LCS1	Zinc Total ICAP/MS		100	99.4	ug/L	99	(85-115)		
LCS2	Zinc Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.6
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.1	ug/L	100	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201412190424	Zinc Total ICAP/MS	ND	100	95.3	ug/L	94	(70-130)		
MS2_201412300947	Zinc Total ICAP/MS	ND	100	97.2	ug/L	97	(70-130)		
MSD_201412190424	Zinc Total ICAP/MS	ND	100	94.1	ug/L	93	(70-130)	20	1.3
MSD2_201412300947	Zinc Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)	20	0.62

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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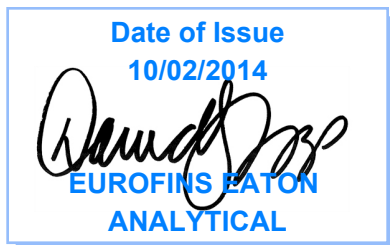
750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Crystal Geyser Roxane
P.O. Drawer A
Olancho, CA 93549
Attention: Manuel Luna
Fax: 760-764-2157



DST: David S Tripp
Project Manager

Report: 497401
Project: CGR-OLANCHA
Group: Wastewater

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Crystal Geyser Roxane**
P.O. Drawer A
Olancho, CA 93549

Client ID: CRYSTAL-ROX
Folder #: 497401
Project: CGR-OLANCHA
Sample Group: Wastewater

Attn: Manuel Luna
Phone: 760-764-1822

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **September 04, 2014 at 1613**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201409040675	FP Outlet	09/03/2014 1100
	@ICPMS	@ICPMS
	@THM524	Alkalinity in CaCO3 units
	Bicarb.Alkalinity as HCO3,calc	Biochemical Oxygen Demand,Totl
	Chemical Oxygen Demand (COD)	Chloride
	Magnesium Total ICAP	Nitrate as Nitrogen by IC
	Orthophosphate as P (OPO4)	PH (H3=past HT not compliant)
	Specific Conductance	Sulfate
	Total Kjeldahl Nitrogen	Total Organic Halogen
	Total Suspended Solids (TSS)	

Test Description

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

@HAA6 -- Haloacetic Acids

@THM524 -- Volatile Organics by GCMS

Note: Sampler Please return this paper with your samples

Kit #: 96593

Created By: DST

Deliver By: 09/02/2014

STG: Bottle Orders

Ice Type: W

Client ID: CRYSTAL-ROX

Project Code: CGR-OLANCHA Bottle Orders

Group Name: Wastewater

PO#/JOB#:

Ship Sample Kits to
Crystal Geyser Roxane
1210 South Highway 395
Olancha, CA 93549

Attn: Manuel Luna - Shipping
Phone: 760-764-1822
Fax: 760-764-2861

Send Report to
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Manuel Luna
Phone: 760-764-1822
Fax: 760-764-2157

Billing Address
Crystal Geyser Roxane
P.O. Drawer A
Olancha, CA 93549

Attn: Barbie Button
Phone: 760-764-2885
Fax: 760-764-2026

of Sample Tests **Bottles - Qty for each sample, type & preservative if any** **UN DOT #**

1	@HAA6	3	40ml amber glass vial 65mg NH4Cl	
1	@ICPMS	1	500ml poly no preservative	
1	@ICPMS, Calcium Total ICAP, Magnesium Total ICAP, Sodium Total ICAP	1	500ml acid poly 2ml HNO3 (18%)	UN2031
1	@THM524	3	40ml amber glass vial 0.25ml thio (8%)	
1	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance	1	250ml poly no preservative	
1	Ammonia Nitrogen, Total Kjeldahl Nitrogen, Total phosphorus as P	1	250ml poly 0.5ml H2SO4 (50%)	UN1830
1	Biochemical Oxygen Demand Totl	1	1L poly no preservative	
1	Chemical Oxygen Demand (COD)	1	125ml poly 0.5ml H2SO4 (50%)	UN1830
1	Chloride, Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Sulfate	1	125ml poly no preservative	
1	Free Chlorine Residual, Total Chlorine Residual	1	125ml amber glass CHL_no preservative	
1	Orthophosphate as P	1	125ml poly OPO4_no preservative	
1	Total Organic Halogen	2	250ml amber glass 2ml H2SO4 (50%)	UN1830
1	Total Suspended Solids (TSS)	1	500ml poly TDS - no preservative	

Comments

SHIPPING: Please deliver Tuesday 09/02/14.

From: (760) 764-2885
George Castaneda
CG ROXANE LLC
1210 SOUTH HWY 395

Olancho, CA 93549

Origin ID: IYKA



Ship Date: 03SEP14
ActWgt: 24.0 LB
CAD: 7147219/INET3550

Delivery Address Bar Code



SHIP TO: (626) 386-1158
David
Eurofins Labs
750 ROYAL OAKS DR

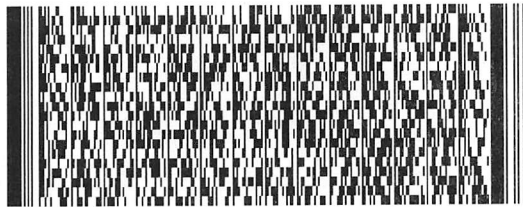
MONROVIA, CA 91016

BILL SENDER

Ref #
Invoice #
PO #
Dept #

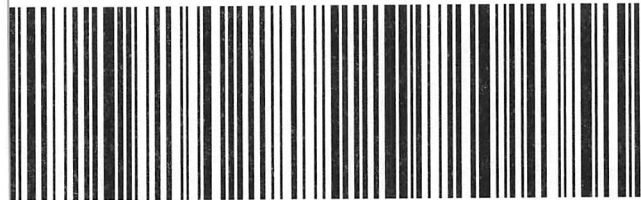
THU - 04 SEP AA
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522G1/CDB4/BAC9

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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Laboratory Hits
 Report: 497401

Crystal Geysers Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 09/04/2014 1613

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201409040675	<u>FP Outlet</u>				
09/10/2014 02:03	Alkalinity in CaCO3 units		65		mg/L	2
09/26/2014 13:41	Barium dissolved ICAP/MS		8.0		ug/L	2
09/26/2014 13:48	Barium Total ICAP/MS		8.2	2000	ug/L	2
09/10/2014 11:32	Bicarb. Alkalinity as HCO3calc		62		mg/L	2
09/08/2014 17:02	Calcium Total ICAP		18		mg/L	1
09/12/2014 10:45	Chemical Oxygen Demand (COD)		10		mg/L	5
09/04/2014 22:33	Chloride		3.2	250	mg/L	1
09/10/2014 13:41	Kjeldahl Nitrogen		0.31		mg/L	0.2
09/08/2014 17:02	Magnesium Total ICAP		1.3		mg/L	0.1
09/05/2014 10:48	Orthophosphate as P		0.23		mg/L	0.01
09/10/2014 02:03	PH (H3=past HT not compliant)		9.9		Units	0.1
09/08/2014 17:02	Sodium Total ICAP		25		mg/L	1
09/10/2014 02:03	Specific Conductance, 25 C		220		umho/cm	10
09/04/2014 22:33	Sulfate		28	250	mg/L	0.5
09/18/2014 19:19	Total phosphorus as P		0.27		mg/L	0.02

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Laboratory Data
 Report: 497401

Crystal Geyser Roxane
 Manuel Luna
 P.O. Drawer A
 Olancho, CA 93549

Samples Received on:
 09/04/2014 1613

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FP Outlet (201409040675)						Sampled on 09/03/2014 1100		
EPA 200.8 - ICPMS Metals								
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Antimony dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Arsenic dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Barium dissolved ICAP/MS	8.0	ug/L	2	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Barium Total ICAP/MS	8.2	ug/L	2	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Beryllium dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Cadmium dissolved ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Chromium dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Cobalt dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Copper dissolved ICAP/MS	ND	ug/L	2	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Lead dissolved ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Molybdenum dissolved ICAP/MS	ND	ug/L	2	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Molybdenum Total ICAP/MS	ND	ug/L	2	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Nickel dissolved ICAP/MS	ND	ug/L	5	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Selenium dissolved ICAP/MS	ND	ug/L	5	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
9/5/2014	09/30/2014	20:02 795450	(EPA 200.8)	Silver dissolved ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/11/2014	17:44 791886	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Thallium dissolved ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Vanadium Dissolved ICAP/MS	ND	ug/L	3	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Vanadium Total ICAP/MS	ND	ug/L	3	1
9/5/2014	09/26/2014	13:41 794941	(EPA 200.8)	Zinc dissolved ICAP/MS	ND	ug/L	20	1
9/5/2014	09/26/2014	13:48 794941	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals								
9/5/2014	09/08/2014	17:02 791106	(EPA 200.7)	Calcium Total ICAP	18	mg/L	1	1

Rounding on totals after summation.
 (c) - indicates calculated results

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
09/04/2014 1613

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
9/5/2014	09/08/2014	17:02 791106	(EPA 200.7)	Magnesium Total ICAP	1.3	mg/L	0.1	1
9/5/2014	09/08/2014	17:02 791106	(EPA 200.7)	Sodium Total ICAP	25	mg/L	1	1
SW9020/SM5320 - Total Organic Halides								
9/8/2014	09/08/2014	16:01 791354	(SW9020/SM5320)	Total Organic Halides Average	ND (B4)	ug/L	10	1
9/8/2014	09/08/2014	16:01 791354	(SW9020/SM5320)	Total Organic Halides Rep 1	ND (B4)	ug/L	10	1
9/8/2014	09/08/2014	16:01 791354	(SW9020/SM5320)	Total Organic Halides Rep 2	ND (B4)	ug/L	10	1
SM2330B - Bicarb.Alkalinity as HCO3,calc								
	09/10/2014	11:32	(SM2330B)	Bicarb.Alkalinity as HCO3calc	62	mg/L	2	1
SM 6251B - Haloacetic Acids								
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1	1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	1,2,3-Trichloropropane	116	%		1
9/8/2014	09/09/2014	17:26 791361	(SM 6251B)	2,3-Dibromopropionic acid	107	%		1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0								
	09/04/2014	22:33 790745	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.1	1
	09/04/2014	22:33 790745	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	09/04/2014	22:33 790748	(EPA 300.0)	Chloride	3.2	mg/L	1	1
	09/04/2014	22:33 790748	(EPA 300.0)	Sulfate	28	mg/L	0.5	1
SM4500-PE/EPA 365.1 - Total phosphorus as P (T-P)								
	09/18/2014	19:19 793561	(SM4500-PE/EPA 365.1)	Total phosphorus as P	0.27	mg/L	0.02	1
EPA 351.2 - Total Kjeldahl Nitrogen								
	09/10/2014	13:41 791980	(EPA 351.2)	Kjeldahl Nitrogen	0.31	mg/L	0.2	1
EPA 350.1 - Ammonia Nitrogen								
	09/11/2014	18:49 791993	(EPA 350.1)	Ammonia Nitrogen	ND	mg/L	0.05	1
EPA 524.2 - Volatile Organics by GCMS								
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	1,2-Dichloroethane-d4	100	%		1

Rounding on totals after summation.
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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Samples Received on:
09/04/2014 1613

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	4-Bromofluorobenzene	96	%		1
9/7/2014	09/08/2014	01:37 791041	(EPA 524.2)	Toluene-d8	97	%		1
SM 2320B - Alkalinity in CaCO3 units								
	09/10/2014	02:03 791455	(SM 2320B)	Alkalinity in CaCO3 units	65	mg/L	2	1
SM4500-HB - PH (H3=past HT not compliant)								
	09/10/2014	02:03 791465	(SM4500-HB)	PH (H3=past HT not compliant)	9.9	Units	0.1	1
SM 2540D - Total Suspended Solids (TSS)								
	09/08/2014	16:23 791078	(SM 2540D)	Total Suspended Solids (TSS)	ND	mg/L	10	1
EPA 410.4 - Chemical Oxygen Demand (COD)								
	09/12/2014	10:45 792073	(EPA 410.4)	Chemical Oxygen Demand (COD)	10	mg/L	5	1
SM2510B - Specific Conductance								
	09/10/2014	02:03 791472	(SM2510B)	Specific Conductance, 25 C	220 (B7)	umho/cm	10	1
SM5210B 405.1 - Biochemical Oxygen Demand, Totl								
	09/05/2014	11:13 790691	(SM5210B 405.1)	Biochemical Oxygen Demand, Totl	ND	mg/L	3	1
4500P-E/365.1 - Orthophosphate as P (OPO4)								
	09/05/2014	10:48 790602	(4500P-E/365.1)	Orthophosphate as P	0.23	mg/L	0.01	1
SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)								
	09/04/2014	14:00 790638	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1
SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)								
	09/04/2014	14:00 790629	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND (H5)	mg/L	0.1	1

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Crystal Geyser Roxane
Manuel Luna
P.O. Drawer A
Olancho, CA 93549

Flags Legend:

B4 - Target analyte detected in blank at or above method acceptance criteria.

B7 - Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.

H5 - This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

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Crystal Geysler Roxane

QC Ref # 790602 - Orthophosphate as P (OPO4)	Analysis Date: 09/05/2014
201409040675 FP Outlet	Analyzed by: 6Q4
QC Ref # 790629 - Free Chlorine Residual (H3=past HT not complian	Analysis Date: 09/04/2014
201409040675 FP Outlet	Analyzed by: NJR
QC Ref # 790638 - Total Chlorine Residual (H3=past HT not complian	Analysis Date: 09/04/2014
201409040675 FP Outlet	Analyzed by: NJR
QC Ref # 790691 - Biochemical Oxygen Demand, Totl	Analysis Date: 09/05/2014
201409040675 FP Outlet	Analyzed by: MIA8
QC Ref # 790745 - Nitrate, Nitrite by EPA 300.0	Analysis Date: 09/04/2014
201409040675 FP Outlet	Analyzed by: CYP
QC Ref # 790748 - Chloride, Sulfate by EPA 300.0	Analysis Date: 09/04/2014
201409040675 FP Outlet	Analyzed by: CYP
QC Ref # 791041 - Volatile Organics by GCMS	Analysis Date: 09/08/2014
201409040675 FP Outlet	Analyzed by: KAM
QC Ref # 791078 - Total Suspended Solids (TSS)	Analysis Date: 09/08/2014
201409040675 FP Outlet	Analyzed by: W8E1
QC Ref # 791106 - ICP Metals	Analysis Date: 09/08/2014
201409040675 FP Outlet	Analyzed by: NINA
QC Ref # 791354 - Total Organic Halides	Analysis Date: 09/08/2014
201409040675 FP Outlet	Analyzed by: MYH
QC Ref # 791361 - Haloacetic Acids	Analysis Date: 09/09/2014
201409040675 FP Outlet	Analyzed by: MCP
QC Ref # 791455 - Alkalinity in CaCO3 units	Analysis Date: 09/10/2014
201409040675 FP Outlet	Analyzed by: JMO
QC Ref # 791465 - PH (H3=past HT not compliant)	Analysis Date: 09/10/2014
201409040675 FP Outlet	Analyzed by: JMO
QC Ref # 791472 - Specific Conductance	Analysis Date: 09/10/2014
201409040675 FP Outlet	Analyzed by: JMO
QC Ref # 791886 - ICPMS Metals	Analysis Date: 09/11/2014
201409040675 FP Outlet	Analyzed by: AZS
QC Ref # 791980 - Total Kjeldahl Nitrogen	Analysis Date: 09/10/2014
201409040675 FP Outlet	Analyzed by: MYH
QC Ref # 791993 - Ammonia Nitrogen	Analysis Date: 09/11/2014
201409040675 FP Outlet	Analyzed by: KXS
QC Ref # 792073 - Chemical Oxygen Demand (COD)	Analysis Date: 09/12/2014
201409040675 FP Outlet	Analyzed by: 6Q4

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Crystal Geysers Roxane

QC Ref # 793561 - Total phosphorus as P (T-P)

201409040675 FP Outlet

Analysis Date: 09/18/2014

Analyzed by: MYH

QC Ref # 794941 - ICPMS Metals

201409040675 FP Outlet

201409040675 FP Outlet

Analysis Date: 09/26/2014

Analyzed by: S XK

Analyzed by: S XK

QC Ref # 795450 - ICPMS Metals

201409040675 FP Outlet

Analysis Date: 09/30/2014

Analyzed by: S XK

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 790602 - Orthophosphate as P (OPO4) by 4500P-E/365.1						Analysis Date: 09/05/2014			
LCS1	Orthophosphate as P		0.25	0.242	mg/L	97	(90-110)		
LCS2	Orthophosphate as P		0.25	0.242	mg/L	97	(90-110)	20	0.0
MBLK	Orthophosphate as P		0.01	<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0120	mg/L	120	(50-150)		
MS_201409050159	Orthophosphate as P	ND	0.5	0.505	mg/L	100	(90-110)		
MSD_201409050159	Orthophosphate as P	ND	0.5	0.500	mg/L	99	(90-110)	20	1
QC Ref# 790629 - Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH						Analysis Date: 09/04/2014			
LCS1	Free Chlorine Residual		1.0	0.940	mg/L	94	(85-115)		
LCS2	Free Chlorine Residual		1.0	0.960	mg/L	96	(85-115)	20	2.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 790638 - Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G						Analysis Date: 09/04/2014			
LCS1	Total Chlorine Residual		1.0	1.02	mg/L	102	(85-115)		
LCS2	Total Chlorine Residual		1.0	1.03	mg/L	103	(85-115)	20	0.98
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.120	mg/L	120	(50-150)		
QC Ref# 790691 - Biochemical Oxygen Demand,Totl by SM5210B 405.1						Analysis Date: 09/05/2014			
DUP1_201409040675	Biochemical Oxygen DemandTotl	ND		ND	mg/L		(0-20)		
DUP2_201409050009	Biochemical Oxygen DemandTotl	5.6		6.14	mg/L		(0-20)		
LCS1	Biochemical Oxygen DemandTotl		198	215	mg/L	109	(85-115)		
MBLK	Biochemical Oxygen DemandTotl			<3	mg/L				
QC Ref# 790745 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						Analysis Date: 09/04/2014			
LCS1	Nitrate as Nitrogen by IC		2.5	2.27	mg/L	91	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.31	mg/L	93	(90-110)	20	1.8
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0409	mg/L	82	(50-150)		
MS_201409040290	Nitrate as Nitrogen by IC	ND	1.3	2.27	mg/L	91	(80-120)		
MS_201409040675	Nitrate as Nitrogen by IC	ND	1.3	1.21	mg/L	97	(80-120)		
MSD_201409040290	Nitrate as Nitrogen by IC	ND	1.3	2.31	mg/L	92	(80-120)	20	1.8
MSD_201409040675	Nitrate as Nitrogen by IC	ND	1.3	1.21	mg/L	97	(80-120)	20	0.0
LCS1	Nitrite Nitrogen by IC		1.0	0.906	mg/L	91	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.924	mg/L	92	(90-110)	20	2.0
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0480	mg/L	96	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201409040290	Nitrite Nitrogen by IC	ND	0.5	0.779	mg/L	78	(80-120)		
MS_201409040675	Nitrite Nitrogen by IC	ND	0.5	0.471	mg/L	94	(80-120)		
MSD_201409040290	Nitrite Nitrogen by IC	ND	0.5	0.794	mg/L	79	(80-120)	20	1.9
MSD_201409040675	Nitrite Nitrogen by IC	ND	0.5	0.472	mg/L	95	(80-120)	20	0.21

QC Ref# 790748 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 09/04/2014

LCS1	Chloride		25	23.0	mg/L	92	(90-110)		
LCS2	Chloride		25	23.4	mg/L	94	(90-110)	20	1.7
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.406	mg/L	81	(50-150)		
MS_201409040675	Chloride	3.2	13	15.9	mg/L	102	(80-120)		
MS_201409040290	Chloride	54	13	76.0	mg/L	89	(80-120)		
MSD_201409040675	Chloride	3.2	13	15.8	mg/L	102	(80-120)	20	0.0
MSD_201409040290	Chloride	54	13	76.3	mg/L	91	(80-120)	20	0.39
LCS1	Sulfate		50	48.3	mg/L	97	(90-110)		
LCS2	Sulfate		50	49.2	mg/L	98	(90-110)	20	1.9
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.831	mg/L	83	(50-150)		
MRLLW	Sulfate		0.25	0.223	mg/L	89	(50-150)		
MS_201409040675	Sulfate	28	25	55.6	mg/L	110	(80-120)		
MS_201409040290	Sulfate	ND	25	48.5	mg/L	97	(80-120)		
MSD_201409040290	Sulfate	ND	25	49.4	mg/L	99	(80-120)	20	1.8
MSD_201409040675	Sulfate	28	25	55.6	mg/L	110	(80-120)	20	0.0

QC Ref# 791041 - Volatile Organics by GCMS by EPA 524.2

Analysis Date: 09/07/2014

LCS1	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			98.6	%	99	(70-130)		
LCS1	4-Bromofluorobenzene (S)			99.6	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	Bromodichloromethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	Bromodichloromethane		5.0	5.05	ug/L	101	(70-130)	20	1.8
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoform		5.0	5.31	ug/L	106	(70-130)		
LCS2	Bromoform		5.0	5.34	ug/L	107	(70-130)	20	0.56
MBLK	Bromoform			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.22	ug/L	104	(70-130)	20	2.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	4.81	ug/L	96	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.93	ug/L	99	(70-130)	20	2.5
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Toluene-d8 (S)			99.0	%	99	(70-130)		
LCS2	Toluene-d8 (S)			101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			99.2	%	99	(70-130)		

QC Ref# 791078 - Total Suspended Solids (TSS) by SM 2540D

Analysis Date: 09/08/2014

DUP_201409031125	Total Suspended Solids (TSS)	52	10	50.0	mg/L		(0-10)	10	3.9
DUP_201409020390	Total Suspended Solids (TSS)	54	10	50.0	mg/L		(0-10)	10	7.7
LCS1	Total Suspended Solids (TSS)		175	170	mg/L	97	(71-107)		
LCS2	Total Suspended Solids (TSS)		175	186	mg/L	106	(71-107)	20	9.0
MBLK	Total Suspended Solids (TSS)		10	<10	mg/L				
MRL_CHK	Total Suspended Solids (TSS)		10	11.0	mg/L	110	(50-150)		

QC Ref# 791106 - ICP Metals by EPA 200.7

Analysis Date: 09/08/2014

LCS1	Calcium Total ICAP		50	49.1	mg/L	98	(85-115)		
LCS2	Calcium Total ICAP		50	50.1	mg/L	100	(85-115)	20	2.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.964	mg/L	96	(50-150)		
MS_201409050142	Calcium Total ICAP	9.3	50	57.6	mg/L	97	(70-130)		
MS2_201409030690	Calcium Total ICAP	3.5	50	51.8	mg/L	97	(70-130)		
MSD_201409050142	Calcium Total ICAP	9.3	50	58.1	mg/L	98	(70-130)	20	0.86
MSD2_201409030690	Calcium Total ICAP	3.5	50	53.1	mg/L	99	(70-130)	20	2.5
LCS1	Magnesium Total ICAP		20	19.9	mg/L	100	(85-115)		
LCS2	Magnesium Total ICAP		20	20.3	mg/L	101	(85-115)	20	2.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.104	mg/L	104	(50-150)		
MS_201409050142	Magnesium Total ICAP	0.97	20	20.9	mg/L	100	(70-130)		
MS2_201409030690	Magnesium Total ICAP	2.0	20	21.4	mg/L	97	(70-130)		
MSD_201409050142	Magnesium Total ICAP	0.97	20	20.9	mg/L	100	(70-130)	20	0.0
MSD2_201409030690	Magnesium Total ICAP	2.0	20	22.0	mg/L	100	(70-130)	20	2.8
LCS1	Sodium Total ICAP		50	49.8	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		50	50.4	mg/L	101	(85-115)	20	1.2
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.04	mg/L	104	(50-150)		
MS_201409050142	Sodium Total ICAP	150	50	188	mg/L	82	(70-130)		
MS2_201409030690	Sodium Total ICAP	16	50	65.0	mg/L	98	(70-130)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201409050142	Sodium Total ICAP	150	50	195	mg/L	97	(70-130)	20	3.7
MSD2_201409030690	Sodium Total ICAP	16	50	67.3	mg/L	102	(70-130)	20	3.5

QC Ref# 791354 - Total Organic Halides by SW9020/SM5320

Analysis Date: 09/08/2014

LCS1	Total Organic Halides Rep 1		50	46.2	ug/L	92	(85-115)		
LCS2	Total Organic Halides Rep 1		200	191	ug/L	96	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	4.96	ug/L	99	(50-150)		
MS_201408290767	Total Organic Halides Rep 1	ND	50	53.6	ug/L	100	(90-110)		
MSD_201408290767	Total Organic Halides Rep 1	ND	50	61.5	ug/L	116	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	5.00	ug/L	100	(97-103)		
LCS1	Total Organic Halides Rep 2		50	48.4	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 2		200	198	ug/L	99	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	5.31	ug/L	106	(50-150)		
MS_201408290767	Total Organic Halides Rep 2	ND	50	53.6	ug/L	107	(90-110)		
MSD_201408290767	Total Organic Halides Rep 2	ND	50	61.5	ug/L	123	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.00	ug/L	100	(97-103)		

QC Ref# 791361 - Haloacetic Acids by SM 6251B

Analysis Date: 09/09/2014

CCCH	1,2,3-Trichloropropane (I)			103	%	103	(80-120)		
CCCM	1,2,3-Trichloropropane (I)			102	%	102	(80-130)		
DUP1_201409040348	1,2,3-Trichloropropane (I)			105	%	105	(80-120)		
DUP2_201409040487	1,2,3-Trichloropropane (I)			115	%	115	(80-120)		
LCS3	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
MBLK	1,2,3-Trichloropropane (I)			104	%	104	(80-120)		
MRL_CHK	1,2,3-Trichloropropane (I)			102	%	102	(80-120)		
MS1_201409040342	1,2,3-Trichloropropane (I)			98.6	%	99	(80-120)		
MS2_201409040486	1,2,3-Trichloropropane (I)			101	%	101	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)			103	%	103	(70-130)		
DUP1_201409040348	2,3-Dibromopropionic acid (S)			107	%	107	(70-130)		
DUP2_201409040487	2,3-Dibromopropionic acid (S)			112	%	112	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)			101	%	101	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			98.0	%	98	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)			101	%	101	(70-130)		
MS1_201409040342	2,3-Dibromopropionic acid (S)			109	%	109	(70-130)		
MS2_201409040486	2,3-Dibromopropionic acid (S)			118	%	118	(70-130)		
CCCH	Bromochloroacetic acid		32	31.6	ug/L	99	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Bromochloroacetic acid		20	19.5	ug/L	97	(85-115)		
DUP1_201409040348	Bromochloroacetic acid	1.2		1.20	ug/L		(0-20)		
DUP2_201409040487	Bromochloroacetic acid	4.5		4.06	ug/L		(0-20)	20	11
LCS3	Bromochloroacetic acid		8.0	7.37	ug/L	92	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1.0	0.850	ug/L	85	(50-150)		
MS1_201409040342	Bromochloroacetic acid	ND	20	19.8	ug/L	97	(84-123)		
MS2_201409040486	Bromochloroacetic acid	4.4	32	38.1	ug/L	105	(84-123)		
CCCH	Dibromoacetic acid		32	32.5	ug/L	102	(85-115)		
CCCM	Dibromoacetic acid		20	19.8	ug/L	99	(85-115)		
DUP1_201409040348	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201409040487	Dibromoacetic acid	8.2		7.30	ug/L		(0-20)	20	12
LCS3	Dibromoacetic acid		8.0	7.49	ug/L	94	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1.0	0.904	ug/L	90	(50-150)		
MS1_201409040342	Dibromoacetic acid	ND	20	19.7	ug/L	98	(84-122)		
MS2_201409040486	Dibromoacetic acid	7.8	32	40.6	ug/L	102	(84-122)		
CCCH	Dichloroacetic acid		32	32.0	ug/L	100	(85-115)		
CCCM	Dichloroacetic acid		20	20.5	ug/L	103	(85-115)		
DUP1_201409040348	Dichloroacetic acid	16		16.3	ug/L		(0-20)	20	1.9
DUP2_201409040487	Dichloroacetic acid	2.2		2.09	ug/L		(0-20)		
LCS3	Dichloroacetic acid		8.0	8.17	ug/L	102	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1.0	1.24	ug/L	124	(50-150)		
MS1_201409040342	Dichloroacetic acid	3.3	20	23.6	ug/L	101	(79-123)		
MS2_201409040486	Dichloroacetic acid	2.2	32	36.0	ug/L	105	(79-123)		
CCCH	Monobromoacetic acid		32	31.7	ug/L	99	(85-115)		
CCCM	Monobromoacetic acid		20	20.2	ug/L	101	(85-115)		
DUP1_201409040348	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201409040487	Monobromoacetic acid	1.1		1.03	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8.0	8.06	ug/L	101	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1.0	0.976	ug/L	98	(50-150)		
MS1_201409040342	Monobromoacetic acid	ND	20	19.7	ug/L	99	(81-122)		
MS2_201409040486	Monobromoacetic acid	1.1	32	35.6	ug/L	108	(81-122)		
CCCH	Monochloroacetic acid		32	30.7	ug/L	96	(85-115)		
CCCM	Monochloroacetic acid		20	20.4	ug/L	102	(85-115)		
DUP1_201409040348	Monochloroacetic acid	ND		ND	ug/L		(0-20)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP2_201409040487	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8.0	8.63	ug/L	108	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2.0	2.15	ug/L	108	(50-150)		
MS1_201409040342	Monochloroacetic acid	ND	20	18.0	ug/L	90	(72-126)		
MS2_201409040486	Monochloroacetic acid	ND	32	36.0	ug/L	112	(72-126)		
CCCH	Trichloroacetic acid		32	31.6	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	19.5	ug/L	98	(85-115)		
DUP1_201409040348	Trichloroacetic acid	20		19.6	ug/L		(0-20)	20	0.049
DUP2_201409040487	Trichloroacetic acid	2.6		2.40	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8.0	7.39	ug/L	92	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1.0	0.897	ug/L	90	(50-150)		
MS1_201409040342	Trichloroacetic acid	31	20	55.0	ug/L	122	(82-124)		
MS2_201409040486	Trichloroacetic acid	2.6	32	34.8	ug/L	101	(82-124)		

QC Ref# 791455 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 09/09/2014

LCS1	Alkalinity in CaCO3 units		100	94.6	mg/L	95	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	95.3	mg/L	95	(90-110)	20	0.74
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.44	mg/L	72	(50-150)		
MS_201409100673	Alkalinity in CaCO3 units	310	100	407	mg/L	96	(80-120)		
MS_201409040745	Alkalinity in CaCO3 units	140	100	234	mg/L	100	(80-120)		
MSD_201409100673	Alkalinity in CaCO3 units	310	100	411	mg/L	99	(80-120)	20	0.98
MSD_201409040745	Alkalinity in CaCO3 units	140	100	234	mg/L	99	(80-120)	20	0.43

QC Ref# 791465 - PH (H3=past HT not compliant) by SM4500-HB

Analysis Date: 09/10/2014

DUP_201409040661	PH (H3=past HT not compliant)	8.3	0.01	8.32	Units		(0-20)	20	0.72
DUP2_201409100674	PH (H3=past HT not compliant)	8.1	0.01	8.20	Units		(0-20)	20	0.98
LCS1	PH (H3=past HT not compliant)		6.0	6.03	Units	101	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.04	Units	101	(98-102)	20	0.17

QC Ref# 791472 - Specific Conductance by SM2510B

Analysis Date: 09/10/2014

DUP1_201409100673	Specific Conductance	910	2	905	umho/cm		(0-20)	20	0.75
DUP2_201409100674	Specific Conductance	950	2	953	umho/cm		(0-20)	20	0.063
LCS1	Specific Conductance		1000	992	umho/cm	99	(95-105)		
LCS2	Specific Conductance		1000	994	umho/cm	99	(95-105)	20	0.20
MBLK	Specific Conductance		2	2.40	umho/cm				
MRLHI	Specific Conductance		9.3	10.4	umho/cm	112	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 791886 - ICPMS Metals by EPA 200.8						Analysis Date: 09/11/2014			
LCS1	Silver Total ICAP/MS		50	48.7	ug/L	98	(85-115)		
LCS2	Silver Total ICAP/MS		50	46.9	ug/L	94	(85-115)	20	3.8
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.512	ug/L	102	(50-150)		
MS_201409050159	Silver Total ICAP/MS	ND	50	50.2	ug/L	100	(70-130)		
MS2_201409040423	Silver Total ICAP/MS	ND	50	43.2	ug/L	86	(70-130)		
MSD_201409050159	Silver Total ICAP/MS	ND	50	48.8	ug/L	98	(70-130)	20	2.8
MSD2_201409040423	Silver Total ICAP/MS	ND	50	45.0	ug/L	90	(70-130)	20	4.1
QC Ref# 791980 - Total Kjeldahl Nitrogen by EPA 351.2						Analysis Date: 09/10/2014			
LCS1	Kjeldahl Nitrogen		4.0	3.93	mg/L	98	(90-110)		
LCS2	Kjeldahl Nitrogen		4.0	3.91	mg/L	98	(90-110)	20	0.51
MBLK	Kjeldahl Nitrogen			<0.1	mg/L				
MRL_CHK	Kjeldahl Nitrogen		0.2	0.223	mg/L	112	(50-150)		
MS_201409030901	Kjeldahl Nitrogen	ND	4.0	3.86	mg/L	95	(90-110)		
MS_201408270941	Kjeldahl Nitrogen	ND	4.0	0.932	mg/L	<u>17</u>	(90-110)		
MSD_201408270941	Kjeldahl Nitrogen	ND	4.0	0.894	mg/L	<u>16</u>	(90-110)	10	4.2
MSD_201409030901	Kjeldahl Nitrogen	ND	4.0	3.92	mg/L	97	(90-110)	10	1.5
QC Ref# 791993 - Ammonia Nitrogen by EPA 350.1						Analysis Date: 09/11/2014			
LCS1	Ammonia Nitrogen		0.5	0.505	mg/L	101	(90-110)		
LCS2	Ammonia Nitrogen		0.5	0.509	mg/L	102	(90-110)	20	0.79
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0514	mg/L	103	(53-118)		
MS_201409031141	Ammonia Nitrogen	0.97	0.5	1.85	mg/L	<u>88</u>	(90-110)		
MS_201409060124	Ammonia Nitrogen	0.37	0.5	1.31	mg/L	94	(90-110)		
MS_201408280565	Ammonia Nitrogen	37	0.5	46.2	mg/L	<u>72</u>	(90-110)		
MS_201409050230	Ammonia Nitrogen	ND	0.5	0.431	mg/L	<u>81</u>	(90-110)		
MSD_201409031141	Ammonia Nitrogen	0.97	0.5	1.84	mg/L	<u>88</u>	(90-110)	20	0.54
MSD_201409050230	Ammonia Nitrogen	ND	0.5	0.432	mg/L	<u>82</u>	(90-110)	20	0.23
MSD_201408280565	Ammonia Nitrogen	37	0.5	46.2	mg/L	<u>72</u>	(90-110)	20	0.0
MSD_201409060124	Ammonia Nitrogen	0.37	0.5	1.32	mg/L	95	(90-110)	20	0.76
QC Ref# 792073 - Chemical Oxygen Demand (COD) by EPA 410.4						Analysis Date: 09/12/2014			
LCS1	Chemical Oxygen Demand (COD)		50	49.0	mg/L	98	(90-110)		
LCS2	Chemical Oxygen Demand (COD)		50	48.0	mg/L	96	(90-110)	20	2.1
MBLK	Chemical Oxygen Demand (COD)			<5	mg/L				
MRL_CHK	Chemical Oxygen Demand (COD)		5.0	6.00	mg/L	120	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201408280714	Chemical Oxygen Demand (COD)	5.0	50	55.0	mg/L	100	(90-110)		
MSD_201408280714	Chemical Oxygen Demand (COD)	5.0	50	52.0	mg/L	94	(90-110)	20	5.6
QC Ref# 793561 - Total phosphorus as P (T-P) by SM4500-PE/EPA 365.1						Analysis Date: 09/18/2014			
LCS1	Total phosphorus as P		0.4	0.436	mg/L	109	(90-110)		
LCS2	Total phosphorus as P		0.4	0.417	mg/L	104	(90-110)	20	4.5
MBLK	Total phosphorus as P			<0.01	mg/L				
MRL_CHK	Total phosphorus as P		0.02	0.0245	mg/L	123	(50-150)		
MS_201409050183	Total phosphorus as P	ND	0.4	0.390	mg/L	98	(90-110)		
MS_201408280714	Total phosphorus as P	0.028	0.4	0.422	mg/L	99	(90-110)		
MSD_201408280714	Total phosphorus as P	0.028	0.4	0.418	mg/L	98	(90-110)	20	0.95
MSD_201409050183	Total phosphorus as P	ND	0.4	0.398	mg/L	100	(90-110)	20	2.0
QC Ref# 794941 - ICPMS Metals by EPA 200.8						Analysis Date: 09/26/2014			
LCS1	Antimony dissolved ICAP/MS		50	47.9	ug/L	96	(85-115)		
LCS2	Antimony dissolved ICAP/MS		50	49.2	ug/L	99	(85-115)	20	2.7
MBLK	Antimony dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Antimony dissolved ICAP/MS		1.0	1.20	ug/L	120	(50-150)		
MS_201409110311	Antimony dissolved ICAP/MS		50	45.6	ug/L	91	(70-130)		
MS2_201409160476	Antimony dissolved ICAP/MS		50	47.1	ug/L	94	(70-130)		
MSD_201409110311	Antimony dissolved ICAP/MS		50	46.0	ug/L	92	(70-130)	20	0.87
MSD2_201409160476	Antimony dissolved ICAP/MS		50	45.9	ug/L	92	(70-130)	20	2.6
LCS1	Antimony Total ICAP/MS		50	47.9	ug/L	96	(85-115)		
LCS2	Antimony Total ICAP/MS		50	49.2	ug/L	99	(85-115)	20	2.7
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.20	ug/L	120	(50-150)		
MS_201409110311	Antimony Total ICAP/MS	ND	50	45.6	ug/L	91	(70-130)		
MS2_201409160476	Antimony Total ICAP/MS	ND	50	47.1	ug/L	94	(70-130)		
MSD_201409110311	Antimony Total ICAP/MS	ND	50	46.0	ug/L	92	(70-130)	20	0.87
MSD2_201409160476	Antimony Total ICAP/MS	ND	50	45.9	ug/L	92	(70-130)	20	2.6
LCS1	Arsenic dissolved ICAP/MS		20	19.4	ug/L	97	(85-115)		
LCS2	Arsenic dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)	20	2.0
MBLK	Arsenic dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic dissolved ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201409110311	Arsenic dissolved ICAP/MS		20	20.7	ug/L	104	(70-130)		
MS2_201409160476	Arsenic dissolved ICAP/MS		20	20.2	ug/L	101	(70-130)		
MSD_201409110311	Arsenic dissolved ICAP/MS		20	21.2	ug/L	106	(70-130)	20	2.4
MSD2_201409160476	Arsenic dissolved ICAP/MS		20	20.3	ug/L	101	(70-130)	20	0.49
LCS1	Arsenic Total ICAP/MS		20	19.4	ug/L	97	(85-115)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Arsenic Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	2.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.11	ug/L	111	(50-150)		
MS_201409110311	Arsenic Total ICAP/MS	1.9	20	20.7	ug/L	104	(70-130)		
MS2_201409160476	Arsenic Total ICAP/MS	ND	20	20.2	ug/L	101	(70-130)		
MSD_201409110311	Arsenic Total ICAP/MS	1.9	20	21.2	ug/L	106	(70-130)	20	2.4
MSD2_201409160476	Arsenic Total ICAP/MS	ND	20	20.3	ug/L	101	(70-130)	20	0.49
LCS1	Barium dissolved ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Barium dissolved ICAP/MS		100	101	ug/L	101	(85-115)	20	1.3
MBLK	Barium dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Barium dissolved ICAP/MS		2.0	2.11	ug/L	105	(50-150)		
MS_201409110311	Barium dissolved ICAP/MS		100	203	ug/L	<u>203</u>	(70-130)		
MS2_201409160476	Barium dissolved ICAP/MS		100	119	ug/L	119	(70-130)		
MSD_201409110311	Barium dissolved ICAP/MS		100	206	ug/L	<u>206</u>	(70-130)	20	1.5
MSD2_201409160476	Barium dissolved ICAP/MS		100	116	ug/L	116	(70-130)	20	2.5
LCS1	Barium Total ICAP/MS		100	99.7	ug/L	100	(85-115)		
LCS2	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	1.3
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.11	ug/L	105	(50-150)		
MS_201409110311	Barium Total ICAP/MS	180	100	203	ug/L	<u>203</u>	(70-130)		
MS2_201409160476	Barium Total ICAP/MS	20	100	119	ug/L	119	(70-130)		
MSD_201409110311	Barium Total ICAP/MS	180	100	206	ug/L	<u>206</u>	(70-130)	20	1.5
MSD2_201409160476	Barium Total ICAP/MS	20	100	116	ug/L	116	(70-130)	20	2.5
LCS1	Beryllium dissolved ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium dissolved ICAP/MS		5.0	4.99	ug/L	100	(85-115)	20	0.20
MBLK	Beryllium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium dissolved ICAP/MS		1.0	1.17	ug/L	117	(50-150)		
MS_201409110311	Beryllium dissolved ICAP/MS		5.0	5.06	ug/L	101	(70-130)		
MS2_201409160476	Beryllium dissolved ICAP/MS		5.0	5.16	ug/L	103	(70-130)		
MSD_201409110311	Beryllium dissolved ICAP/MS		5.0	5.06	ug/L	101	(70-130)	20	0.0
MSD2_201409160476	Beryllium dissolved ICAP/MS		5.0	5.07	ug/L	101	(70-130)	20	1.8
LCS1	Beryllium Total ICAP/MS		5.0	5.00	ug/L	100	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.99	ug/L	100	(85-115)	20	0.20
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.17	ug/L	117	(50-150)		
MS_201409110311	Beryllium Total ICAP/MS	ND	5.0	5.06	ug/L	101	(70-130)		
MS2_201409160476	Beryllium Total ICAP/MS	ND	5.0	5.16	ug/L	101	(70-130)		
MSD_201409110311	Beryllium Total ICAP/MS	ND	5.0	5.06	ug/L	101	(70-130)	20	0.0

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201409160476	Beryllium Total ICAP/MS	ND	5.0	5.07	ug/L	99	(70-130)	20	1.8
LCS1	Cadmium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0
MBLK	Cadmium dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium dissolved ICAP/MS		0.5	0.660	ug/L	132	(50-150)		
MS_201409110311	Cadmium dissolved ICAP/MS		20	18.8	ug/L	94	(70-130)		
MS2_201409160476	Cadmium dissolved ICAP/MS		20	20.6	ug/L	103	(70-130)		
MSD_201409110311	Cadmium dissolved ICAP/MS		20	19.0	ug/L	95	(70-130)	20	1.1
MSD2_201409160476	Cadmium dissolved ICAP/MS		20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.660	ug/L	132	(50-150)		
MS_201409110311	Cadmium Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)		
MS2_201409160476	Cadmium Total ICAP/MS	ND	20	20.6	ug/L	103	(70-130)		
MSD_201409110311	Cadmium Total ICAP/MS	ND	20	19.0	ug/L	95	(70-130)	20	1.1
MSD2_201409160476	Cadmium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	2.5
LCS1	Chromium dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Chromium dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	1.9
MBLK	Chromium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Chromium dissolved ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201409110311	Chromium dissolved ICAP/MS		100	102	ug/L	102	(70-130)		
MS2_201409160476	Chromium dissolved ICAP/MS		100	99.4	ug/L	99	(70-130)		
MSD_201409110311	Chromium dissolved ICAP/MS		100	101	ug/L	101	(70-130)	20	0.99
MSD2_201409160476	Chromium dissolved ICAP/MS		100	99.2	ug/L	99	(70-130)	20	0.20
LCS1	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Chromium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	1.9
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.07	ug/L	107	(50-150)		
MS_201409110311	Chromium Total ICAP/MS		100	102	ug/L	98	(70-130)		
MS2_201409160476	Chromium Total ICAP/MS	ND	100	99.4	ug/L	99	(70-130)		
MSD_201409110311	Chromium Total ICAP/MS		100	101	ug/L	98	(70-130)	20	0.99
MSD2_201409160476	Chromium Total ICAP/MS	ND	100	99.2	ug/L	99	(70-130)	20	0.20
LCS1	Cobalt dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Cobalt dissolved ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Cobalt dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt dissolved ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201409110311	Cobalt dissolved ICAP/MS		100	94.7	ug/L	95	(70-130)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201409160476	Cobalt dissolved ICAP/MS		100	97.3	ug/L	97	(70-130)		
MSD_201409110311	Cobalt dissolved ICAP/MS		100	96.0	ug/L	96	(70-130)	20	1.4
MSD2_201409160476	Cobalt dissolved ICAP/MS		100	98.1	ug/L	98	(70-130)	20	0.82
LCS1	Cobalt Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.99
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.18	ug/L	109	(50-150)		
MS_201409110311	Cobalt Total ICAP/MS	ND	100	94.7	ug/L	94	(70-130)		
MS2_201409160476	Cobalt Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)		
MSD_201409110311	Cobalt Total ICAP/MS	ND	100	96.0	ug/L	96	(70-130)	20	1.4
MSD2_201409160476	Cobalt Total ICAP/MS	ND	100	98.1	ug/L	98	(70-130)	20	0.82
LCS1	Copper dissolved ICAP/MS		100	98.3	ug/L	98	(85-115)		
LCS2	Copper dissolved ICAP/MS		100	100	ug/L	100	(85-115)	20	1.7
MBLK	Copper dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Copper dissolved ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201409110311	Copper dissolved ICAP/MS		100	88.8	ug/L	89	(70-130)		
MS2_201409160476	Copper dissolved ICAP/MS		100	99.7	ug/L	100	(70-130)		
MSD_201409110311	Copper dissolved ICAP/MS		100	90.6	ug/L	91	(70-130)	20	2.0
MSD2_201409160476	Copper dissolved ICAP/MS		100	99.9	ug/L	100	(70-130)	20	0.20
LCS1	Copper Total ICAP/MS		100	98.3	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)	20	1.7
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201409110311	Copper Total ICAP/MS	ND	100	88.8	ug/L	89	(70-130)		
MS2_201409160476	Copper Total ICAP/MS	3.0	100	99.7	ug/L	100	(70-130)		
MSD_201409110311	Copper Total ICAP/MS	ND	100	90.6	ug/L	91	(70-130)	20	2.0
MSD2_201409160476	Copper Total ICAP/MS	3.0	100	99.9	ug/L	100	(70-130)	20	0.20
LCS1	Lead dissolved ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Lead dissolved ICAP/MS		20	20.6	ug/L	103	(85-115)	20	4.0
MBLK	Lead dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead dissolved ICAP/MS		0.5	0.582	ug/L	116	(50-150)		
MS_201409110311	Lead dissolved ICAP/MS		20	18.2	ug/L	91	(70-130)		
MS2_201409160476	Lead dissolved ICAP/MS		20	19.7	ug/L	99	(70-130)		
MSD_201409110311	Lead dissolved ICAP/MS		20	18.4	ug/L	92	(70-130)	20	1.1
MSD2_201409160476	Lead dissolved ICAP/MS		20	19.6	ug/L	98	(70-130)	20	0.51
LCS1	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	4.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Lead Total ICAP/MS		0.5	0.582	ug/L	116	(50-150)		
MS_201409110311	Lead Total ICAP/MS	ND	20	18.2	ug/L	91	(70-130)		
MS2_201409160476	Lead Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)		
MSD_201409110311	Lead Total ICAP/MS	ND	20	18.4	ug/L	92	(70-130)	20	1.1
MSD2_201409160476	Lead Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	0.51
LCS1	Molybdenum dissolved ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum dissolved ICAP/MS		100	105	ug/L	105	(85-115)	20	2.9
MBLK	Molybdenum dissolved ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum dissolved ICAP/MS		2.0	2.15	ug/L	108	(50-150)		
MS_201409110311	Molybdenum dissolved ICAP/MS		100	95.6	ug/L	96	(70-130)		
MS2_201409160476	Molybdenum dissolved ICAP/MS		100	92.6	ug/L	93	(70-130)		
MSD_201409110311	Molybdenum dissolved ICAP/MS		100	97.1	ug/L	97	(70-130)	20	1.6
MSD2_201409160476	Molybdenum dissolved ICAP/MS		100	91.2	ug/L	91	(70-130)	20	1.5
LCS1	Molybdenum Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Molybdenum Total ICAP/MS		100	105	ug/L	105	(85-115)	20	2.9
MBLK	Molybdenum Total ICAP/MS			<2	ug/L				
MRL_CHK	Molybdenum Total ICAP/MS		2.0	2.15	ug/L	108	(50-150)		
MS_201409110311	Molybdenum Total ICAP/MS	10	100	95.6	ug/L	85	(70-130)		
MS2_201409160476	Molybdenum Total ICAP/MS	ND	100	92.6	ug/L	92	(70-130)		
MSD_201409110311	Molybdenum Total ICAP/MS	10	100	97.1	ug/L	87	(70-130)	20	1.6
MSD2_201409160476	Molybdenum Total ICAP/MS	ND	100	91.2	ug/L	91	(70-130)	20	1.5
LCS1	Nickel dissolved ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel dissolved ICAP/MS		50	50.3	ug/L	101	(85-115)	20	0.20
MBLK	Nickel dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Nickel dissolved ICAP/MS		5.0	6.46	ug/L	129	(50-150)		
MS_201409110311	Nickel dissolved ICAP/MS		50	45.2	ug/L	90	(70-130)		
MS2_201409160476	Nickel dissolved ICAP/MS		50	49.1	ug/L	98	(70-130)		
MSD_201409110311	Nickel dissolved ICAP/MS		50	46.3	ug/L	93	(70-130)	20	2.4
MSD2_201409160476	Nickel dissolved ICAP/MS		50	48.7	ug/L	98	(70-130)	20	0.82
LCS1	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.3	ug/L	101	(85-115)	20	0.20
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	6.46	ug/L	129	(50-150)		
MS_201409110311	Nickel Total ICAP/MS	ND	50	45.2	ug/L	90	(70-130)		
MS2_201409160476	Nickel Total ICAP/MS	ND	50	49.1	ug/L	98	(70-130)		
MSD_201409110311	Nickel Total ICAP/MS	ND	50	46.3	ug/L	93	(70-130)	20	2.4
MSD2_201409160476	Nickel Total ICAP/MS	ND	50	48.7	ug/L	98	(70-130)	20	0.82
LCS1	Selenium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Selenium dissolved ICAP/MS		20	21.1	ug/L	105	(85-115)	20	4.4
MBLK	Selenium dissolved ICAP/MS			<5	ug/L				
MRL_CHK	Selenium dissolved ICAP/MS		5.0	5.78	ug/L	116	(50-150)		
MS_201409110311	Selenium dissolved ICAP/MS		20	23.5	ug/L	118	(70-130)		
MS2_201409160476	Selenium dissolved ICAP/MS		20	24.1	ug/L	121	(70-130)		
MSD_201409110311	Selenium dissolved ICAP/MS		20	22.9	ug/L	114	(70-130)	20	2.6
MSD2_201409160476	Selenium dissolved ICAP/MS		20	23.4	ug/L	117	(70-130)	20	3.0
LCS1	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.1	ug/L	105	(85-115)	20	4.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.78	ug/L	116	(50-150)		
MS_201409110311	Selenium Total ICAP/MS	ND	20	23.5	ug/L	118	(70-130)		
MS2_201409160476	Selenium Total ICAP/MS	ND	20	24.1	ug/L	121	(70-130)		
MSD_201409110311	Selenium Total ICAP/MS	ND	20	22.9	ug/L	114	(70-130)	20	2.6
MSD2_201409160476	Selenium Total ICAP/MS	ND	20	23.4	ug/L	117	(70-130)	20	3.0
LCS1	Thallium dissolved ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Thallium dissolved ICAP/MS		20	20.8	ug/L	104	(85-115)	20	3.4
MBLK	Thallium dissolved ICAP/MS			<1	ug/L				
MRL_CHK	Thallium dissolved ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201409110311	Thallium dissolved ICAP/MS		20	18.9	ug/L	94	(70-130)		
MS2_201409160476	Thallium dissolved ICAP/MS		20	19.8	ug/L	99	(70-130)		
MSD_201409110311	Thallium dissolved ICAP/MS		20	19.2	ug/L	96	(70-130)	20	1.6
MSD2_201409160476	Thallium dissolved ICAP/MS		20	19.8	ug/L	99	(70-130)	20	0.0
LCS1	Thallium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	3.4
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.14	ug/L	114	(50-150)		
MS_201409110311	Thallium Total ICAP/MS	ND	20	18.9	ug/L	94	(70-130)		
MS2_201409160476	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MSD_201409110311	Thallium Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)	20	1.6
MSD2_201409160476	Thallium Total ICAP/MS	ND	20	19.8	ug/L	99	(70-130)	20	0.0
LCS1	Vanadium Dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Vanadium Dissolved ICAP/MS		100	104	ug/L	104	(85-115)	20	2.9
MBLK	Vanadium Dissolved ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Dissolved ICAP/MS		3.0	3.08	ug/L	103	(50-150)		
MS_201409110311	Vanadium Dissolved ICAP/MS		100	104	ug/L	104	(70-130)		
MS2_201409160476	Vanadium Dissolved ICAP/MS		100	97.7	ug/L	98	(70-130)		
MSD_201409110311	Vanadium Dissolved ICAP/MS		100	104	ug/L	104	(70-130)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Crystal Geyser Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201409160476	Vanadium Dissolved ICAP/MS		100	96.8	ug/L	97	(70-130)	20	0.93
LCS1	Vanadium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	104	ug/L	104	(85-115)	20	2.9
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.08	ug/L	103	(50-150)		
MS_201409110311	Vanadium Total ICAP/MS	7.1	100	104	ug/L	97	(70-130)		
MS2_201409160476	Vanadium Total ICAP/MS	ND	100	97.7	ug/L	98	(70-130)		
MSD_201409110311	Vanadium Total ICAP/MS	7.1	100	104	ug/L	97	(70-130)	20	0.0
MSD2_201409160476	Vanadium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)	20	0.93
LCS1	Zinc dissolved ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Zinc dissolved ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Zinc dissolved ICAP/MS			<20	ug/L				
MRL_CHK	Zinc dissolved ICAP/MS		20	23.1	ug/L	116	(50-150)		
MS_201409110311	Zinc dissolved ICAP/MS		100	96.1	ug/L	96	(70-130)		
MS2_201409160476	Zinc dissolved ICAP/MS		100	119	ug/L	119	(70-130)		
MSD_201409110311	Zinc dissolved ICAP/MS		100	98.3	ug/L	98	(70-130)	20	2.3
MSD2_201409160476	Zinc dissolved ICAP/MS		100	118	ug/L	119	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Zinc Total ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	23.1	ug/L	116	(50-150)		
MS_201409110311	Zinc Total ICAP/MS	ND	100	96.1	ug/L	96	(70-130)		
MS2_201409160476	Zinc Total ICAP/MS	ND	100	119	ug/L	119	(70-130)		
MSD_201409110311	Zinc Total ICAP/MS	ND	100	98.3	ug/L	98	(70-130)	20	2.3
MSD2_201409160476	Zinc Total ICAP/MS	ND	100	118	ug/L	119	(70-130)	20	0.0

QC Ref# 795450 - ICPMS Metals by EPA 200.8

Analysis Date: 09/30/2014

LCS1	Silver dissolved ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Silver dissolved ICAP/MS		50	50.1	ug/L	100	(85-115)	20	0.99
MBLK	Silver dissolved ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver dissolved ICAP/MS		0.5	0.534	ug/L	107	(50-150)		
MS_201409040675	Silver dissolved ICAP/MS	ND	50	46.7	ug/L	93	(70-130)		
MSD_201409040675	Silver dissolved ICAP/MS	ND	50	45.9	ug/L	92	(70-130)	20	1.7
LCS1	Silver Total ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	50.1	ug/L	100	(85-115)	20	0.99
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.534	ug/L	107	(50-150)		
MS_201409040675	Silver Total ICAP/MS	ND	50	46.7	ug/L	93	(70-130)		
MSD_201409040675	Silver Total ICAP/MS	ND	50	45.9	ug/L	92	(70-130)	20	1.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Crystal Geysler Roxane

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
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Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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APPENDIX C

DATA VALIDATION SUMMARY

**Crystal Geyser Roxane
Stage 2A Data Validation Summary**

2/11/15

Summary of the Stage 2A Data Validation of Eurofins Eaton Analytical Laboratory Reports 497401, 512109, 512117, 512467, 512478 and 512998

The water samples were analyzed for volatile organic compounds (VOCs) by EPA methods 524.2 and 624, haloacetic acids by Standard Method 6251B, dissolved and total metals by EPA methods 200.7 and EPA 200.8, alkalinity as CaCO₃ by Standard Method 2320B, bicarbonate alkalinity as HCO₃ (calculation) by Standard Method 2330B, ammonia nitrogen by EPA method 350.1, biochemical oxygen demand (BOD) by Standard Method 5210B/EPA method 405.1, chemical oxygen demand (COD) by EPA method 410.4, anions (nitrate and nitrite as N, chloride and sulfate) by EPA method 300.0, total phosphorus and orthophosphate as P by Standard Method 4500 P-E/EPA method 365.1, pH by Standard Method 4500-HB, specific conductance by Standard Method 2510B, free residual chlorine and total residual chlorine by Standard Method 4500 CL-G/HACH, total kjeldahl nitrogen (TKN) by EPA method 351.2, total nitrogen by calculation by EPA method 353/351, total organic halides (TOX) by EPA method 9020/Standard Method 5320, total suspended solids (TSS) by Standard Method 2540D, total dissolved solids (TDS) by EPA method 160.1/Standard Method 2540C, surfactants by Standard Method 5540C/EPA method 425.1, dissolved oxygen by Standard Method 4500 and quantitray coliforms [24-hour and 18-hour E. coli confirmed (large and small wells), 24-hour total coliform confirmed (large and small wells), E. coli bacteria, total coliform bacteria and presence/absence of E. coli bacteria, total coliform bacteria] by Standard Method 9223B.

The data were validated at an EPA Stage 2A data validation level. Based on this Stage 2A data validation covering the quality control (QC) parameters listed below, with the exceptions of the R qualified (rejected) data, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

It was noted that the trip blanks, reported in laboratory reports 512109, 512117, 512467, 512478 and 512998, were not listed on the chain of custody (COC) forms. In addition, no analyses were listed on the COCs. The samples were not relinquished on the COCs and there was no date or time of laboratory receipt on the COC in laboratory report 512467.

The samples were analyzed within the method specified holding times, with the following exceptions.

The dissolved oxygen, pH, free residual chlorine and total residual chlorine analyses were performed outside the 15 minute holding times, by more than twice the holding times. No qualifications were applied to the pH data based on technical and professional judgment. However, the nondetect free chlorine residual and total chlorine residual values in the associated samples were R qualified as rejected and the detected concentrations were J qualified as estimated and the concentrations of dissolved oxygen were J qualified as estimated.

The results reported for Standard Methods 9223B in laboratory reports 512109, 512117, 512467, 512478 and 512998 were analyzed outside the 8-hour holding time, by more than twice the holding time. Therefore, the detected concentrations were J qualified as estimated and the nondetect values were R qualified as rejected.

The TOX, total phosphorus, TKN and ammonia results in report 512478 were flagged with Q5, indicating the samples were received with inadequate chemical preservation; the samples were preserved at the laboratory. Based on professional and technical judgment, no qualifications were applied to the data.

The specific conductance result in sample EVAP POND (report 512478) was flagged with EB, indicating the result exceeded the highest calibration standard. Therefore, based on professional and technical judgment, the specific conductance concentration in sample EVAP POND was J qualified as estimated.

The surfactant concentration in sample Fire Pond Sanit. (report 512998) was flagged with HA, indicating that while the initial analysis was performed within the holding time, the reanalysis was performed outside the 48-hour holding time; additional information in the report indicated the reanalysis result was reported. Therefore, the concentration of surfactants in sample Fire Pond Sanit. was J qualified as estimated.

The results for the laboratory method blanks, laboratory control samples/laboratory control sample duplicate (LCS/LCSD) pairs, matrix spike/matrix spike duplicate (MS/MSD) pairs, laboratory duplicates and surrogates were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS/LCSD relative percent difference (RPD) result were high and outside the laboratory specified acceptance criteria in batch 809318 for bromomethane and chloromethane and in batch 810034 for bromodichloromethane, chlorodibromomethane and trichloroethylene (TCE). Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

The TOX LCS/LCSD RPD results were high and outside the laboratory specified acceptance criteria in batch 810985. Therefore, the reported concentrations of TOX (rep 1, rep 2 and the average) in the associated sample, EVAP POND (report 512478) were J qualified as estimated.

The LCS recovery of dissolved molybdenum was low, 20%, outside the laboratory specified acceptance criteria in batch 810900. Therefore, the undetected values of dissolved molybdenum in the associated samples were R qualified as rejected and the detected concentrations were J qualified as estimated.

It was noted that acrolein and acrylonitrile were not included in the LCS spikes. Therefore, based on professional and technical judgment, the undetected values of acrolein and acrylonitrile in the associated samples were UJ qualified as estimated less than the MRLs.

The LCS recovery of BOD in batch 809640 was low and outside the laboratory specified acceptance criteria. Therefore, the concentrations of BOD in the associated samples, East Pond San (report 512467) and EVAP POND (report 512478), were J qualified as estimated.

Crystal Geyser Roxane Data Validation

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The undetected value of BOD in sample Fire Pond Sanit. (report 512998) was flagged with KA, indicating that the BOD seed depletion was outside the method and laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the undetected value of BOD in sample Fire Pond Sanit. was UJ qualified as estimated less than the method detection limit (MRL).

BOD was detected above the MRL in the original analysis but was not detected in the laboratory duplicate using sample East Pond (report 512117). Therefore, the BOD concentration in sample East Pond was J qualified as estimated.

Both total and dissolved metals were reported for the samples. The total metals concentrations were greater than or equal to the dissolved metals concentrations, with the following exceptions.

Dissolved arsenic was detected at a concentration greater than the total arsenic concentration in sample Fire Pond (report 512109); the %D between the results was 46%. Therefore, based on professional and technical judgment, the concentrations of total and dissolved arsenic in sample Fire Pond were J qualified as estimated.

For other samples with the total metals concentrations less than the dissolved metals concentrations, the %Ds between the results were less than 30%; therefore, no qualifications were applied to the data, based on professional and technical judgment.

Respectfully submitted by:

Mary Tyler
Geosyntec Consultants
02/11/15

Reviewed by:

Julia K. Caprio
Geosyntec Consultants
02/12/15

2/5/15

Summary of the Stage 2A Data Validation of Eurofins Eaton Analytical Laboratory Reports 514839, 515135, 515329, 494609, 494628, 494630, 496507, and 496641

The water samples were analyzed for volatile organic compounds (VOCs) by EPA methods 524.2 and 624, haloacetic acids by Standard Method 6251B, dissolved and total metals by EPA methods 200.7 and EPA 200.8, alkalinity as CaCO₃ by Standard Method 2320B, bicarbonate alkalinity as HCO₃ (calculation) by Standard Method 2330B, ammonia nitrogen by EPA method 350.1, biochemical oxygen demand (BOD) by Standard Method 5210B/EPA method 405.1, chemical oxygen demand (COD) by EPA method 410.4, anions (nitrate and nitrite as N, chloride and sulfate) by EPA method 300.0, total phosphorus and orthophosphate as P by Standard Method 4500 P-E/EPA method 365.1, pH by Standard Method 4500-HB, specific conductance by Standard Method 2510B, free residual chlorine and total residual chlorine by Standard Method 4500 CL-G, total kjeldahl nitrogen (TKN) by EPA method 351.2, total nitrogen by calculation by EPA method 353/351, total organic halides (TOX) by EPA method 9020/Standard Method 5320, total suspended solids (TSS) by Standard Method 2540D, total dissolved solids (TDS) by EPA method 160.1/Standard Method 2540C, surfactants by Standard Method 5540C/EPA method 425.1 and quantitray coliforms [24-hour and 18-hour E. coli confirmed (large and small wells), 24-hour total coliform confirmed (large and small wells), E. coli bacteria, total coliform bacteria and presence/absence of E. coli bacteria, total coliform bacteria] by Standard Method 9223B.

The data were validated at an EPA Stage 2A data validation level. Based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the exceptions of the rejected data. Qualified data should be used within the limitations of the qualification.

It was noted that the trip blank, QCTB-1-20150106, reported in laboratory report 514839 was not listed on the chain of custody (COC). In addition, no analyses were listed on the COCs.

The samples were analyzed within the method specified holding times, with the following exceptions.

The pH, free residual chlorine and total residual chlorine analyses were performed outside the 15 minute holding times, by more than twice the holding times. No qualifications were applied to the pH data based on technical and professional judgment. However, the nondetect free chlorine residual and total chlorine residual values in the associated samples were R qualified as rejected and the detected concentrations were J qualified as estimated.

The analyses of several VOCs in samples AP-2-20150107 and AP-2-20150107-DUP were from sample aliquots (containers) that had pHs above 2. Therefore, since these analyses were 2 days past the 7 day

holding time for unpreserved samples, the detections were J qualified as estimated and the undetected values were UJ qualified as estimated less than the method reporting limits (MRLs).

The results reported for Standard Methods 9223B were analyzed outside the 8-hour holding time, by more than twice the holding time. Therefore, the detected concentrations were J qualified as estimated and the nondetect values were R qualified as rejected.

The TOX analyses of samples OL3P, OL-2P, and OL-2S were outside the Standard Method 5320 holding time (14 days), but within the EPA Method 9020 holding time (28 days); both methods were listed as the methods used for the analyses. Based on professional and technical judgment, the samples were qualified based on the shorter holding time; therefore, the nondetect values were UJ qualified as estimated less than the MRL and the detect concentrations were J qualified as estimated.

The nitrate and nitrite analyses of sample AP-2-20150107 were several hours outside the 48-hour holding time. Therefore, the undetected value of nitrite was UJ qualified as estimated less than the MRL and the concentration of nitrate was J qualified as estimated.

The results for the laboratory method blanks, laboratory control samples/laboratory control sample duplicate (LCS/LCSD) pairs, matrix spike/matrix spike duplicate (MS/MSD) pairs, laboratory duplicates and surrogates were within the laboratory specified acceptance criteria, with the following exceptions.

Chloroform was detected in equipment blanks QCEB-4-20150108, QCEB-3-20150107, QCEB-2-20150106 and QCEB-1-20150105. Since chloroform was not detected in the associated samples, no qualifications were applied to the data. In addition, alkalinity and bicarbonate alkalinity were detected in equipment blank QCEB-4-20150108. Due to the differences between the equipment blank concentrations and those in the associated samples, no qualifications were applied to the data, based on professional and technical judgment.

The recoveries of TOX in the MS/MSD pair using sample FP INLET were high and outside the laboratory specified acceptance criteria. Since TOX was not detected in sample FP INLET, no qualifications were applied to the data.

The MS recovery of total phosphorus in the MS/MSD pair using sample FP-3-20150106 was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of total phosphorus in sample FP-3-20150106 was J qualified as estimated.

The MS/MSD recoveries of total phosphorus in the MS/MSD pair using sample QCEB-3-20150107 were low and outside the laboratory specified acceptance criteria. Therefore, the undetected value of total phosphorus in sample QCEB-3-20150107 was UJ qualified as estimated less than the MRL.

The MS/MSD recoveries of orthophosphate in the MS/MSD pair using sample FP-1-20150107 were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of orthophosphate in sample FP-1-20150107 was J qualified as estimated less than the MRL.

The MS recoveries of bromomethane and cis-1,3-dichloropropene in the MS using sample FP-3-20150106 were low and the MS recovery of carbon disulfide was high, outside the laboratory specified acceptance criteria. Since carbon disulfide was not detected in the sample, no qualifications were applied to the data. However, the undetected values of bromomethane and cis-1,3-dichloropropene in sample FP-3-20150106 were UJ qualified as estimated less than the MRLs.

The MS/MSD recoveries of cis-1,3-dichloropropene and methyl bromide in the MS/MSD pair using sample AP-3-20150108 were low and outside the laboratory specified acceptance criteria. Therefore, the undetected values of cis-1,3-dichloropropene and methyl bromide in sample AP-3-20150108 were UJ qualified as estimated less than the MRLs. In addition, the MS recoveries of acetone and 2-butanone in the MS/MSD pair were high and outside the laboratory specified acceptance criteria. Since acetone and 2-butanone were not detected in sample AP-3-20150108, no qualifications were applied to the data.

The MSD recovery of total molybdenum in the MS/MSD pair using sample FP-1-20150107 was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of total molybdenum in sample FP-1-20150107 was J+ qualified as estimated with a high bias.

The MS/MSD recoveries of total arsenic in the MS/MSD pair using sample EP-1-20150108 were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of total arsenic in sample EP-1-20150108 was J+ qualified as estimated with a high bias.

The LCS recoveries of chlorodibromomethane and dichlorobromomethane in batch 813889 were high and outside the laboratory specified acceptance criteria. Since these two compounds were not detected in the associated samples, no qualifications were applied to the data.

The LCS recoveries of vinyl acetate and dichlorobromomethane in batch 814454 and chlorodibromomethane in batch 814150 were high and outside the laboratory specified acceptance criteria. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

It was noted that acrolein and acrylonitrile were not included in the LCS spikes. Therefore, based on professional and technical judgment, the undetected values of acrolein and acrylonitrile in the associated samples were UJ qualified as estimated less than the MRLs.

The recovery of surrogate 1,2-dichloroethane-d4 for the VOC analysis of sample OL-2S was low and outside the laboratory specified acceptance criteria. Since the other two surrogate recoveries were within the laboratory specified acceptance criteria, no qualifications were applied to the data.

For the BOD laboratory duplicate using sample PP INLET, BOD was detected above the MRL in the original analysis but was not detected in the laboratory duplicate. Therefore, the BOD concentration for sample PP INLET was J qualified as estimated.

One field duplicate sample, AP-2-20150107-DUP, was collected. Acceptable precision (relative percent difference, RPD \leq 30%) was demonstrated between the field duplicate and the original sample, AP-2-2015010, with the following exceptions. The RPDs for ammonia, antimony, barium, calcium, chromium, cobalt, copper, lead, magnesium, nitrate and zinc were greater than 30%; therefore, the concentrations of these compounds in the field duplicate pair were J qualified as estimated.

Both total and dissolved metals were reported for the samples. The total metals concentrations were greater than or equal to the dissolved metals concentrations, with the following exceptions.

Dissolved vanadium was detected above the MRL and total vanadium was not detected above the MRL in sample PP INLET. Therefore, the detected concentration of dissolved vanadium was J qualified as estimated and the undetected value of total vanadium was UJ qualified as estimated less than the MRL.

Dissolved molybdenum was detected above the MRL and total molybdenum was not detected above the MRL in samples AP-1-20150105 and FP-3-20150106. Therefore, the detected concentrations of dissolved molybdenum were J qualified as estimated and the undetected value of total molybdenum were UJ qualified as estimated less than the MRL.

Dissolved antimony was detected above the MRL and total antimony was not detected above the MRL in sample FP-3-20150106. Therefore, the detected concentration of dissolved antimony was J qualified as estimated and the undetected value of total antimony was UJ qualified as estimated less than the MRL.

Dissolved molybdenum was detected at a concentration greater than the dissolved molybdenum concentration in samples FP-2-20150107, AP-3-20150108, CT-1-20150108, EP-2-20150108 and FP-1-20150107; the %D between the results were 134%, 67%, 85%, 136% and 131%, respectively. Therefore, the concentrations of total and dissolved molybdenum in samples FP-2-20150107, AP-3-20150108, CT-1-20150108 and EP-2-20150108 were J qualified as estimated.

For other samples with the total metals concentrations less than the dissolved metals concentrations, the %Ds between the results less than 30%; therefore, no qualifications were applied to the data, based on professional and technical judgment.

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