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DATA GAP INVESTIGATION REPORT

Former Crown City Plating Company

El Monte, California

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LIST OF ACRONYMS

AIS	American Integrated Services, Inc
AOC	Area of Concern
bgs	below ground surface
CBC	Continental Business Credit, Inc.
CCPC	Crown City Plating Company
CDM	Camp Dresser & McKee
CEL	Calscience Environmental Laboratories
CHHSL	California Human Health Screening Level
Clayton	Clayton Group Services, Inc.
COPC	chemical of potential concern
COC	chemical of concern
DGI	Data Gap Investigation
DTSC	Department of Toxic Substances Control
EMOU	El Monte Operable Unit
Gregg	Gregg Drilling & Testing, Inc.
gpd	gallons per day
H_o	null hypothesis
IDW	investigation derived waste
InterPhase	InterPhase Environmental Inc.
K-VAC	K-VAC Environmental Services, Inc.
LACSD	Los Angeles County Sanitation District
MCL	maximum contaminant level
µg/kg	microgram per kilogram
µg/L	microgram per liter
mg/kg	milligram per kilogram
MTA	Moore Twining Associates, Inc.
NJDEP	New Jersey Department of Environmental Protection
OEHHA	Office of Environmental Health Hazard Assessment
PCE	tetrachloroethene
PHG	public health goal
PPE	personal protective equipment
PBR	permit-by-rule
QA	quality assurance
QC	quality control
RI	Remedial Investigation
RSL	Regional Screening Level
RWQCB	California Regional Water Quality Control Board, Los Angeles Region
SAP	Sampling and Analysis Plan
SPTCo	Southern-Pacific Transportation Company
SSI	Supplemental Site Investigation
SVE	soil vapor extraction
SVOC	semi-volatile organic compounds
TCA	1,1,1-trichloroethane
TCE	trichloroethene
TPH	total petroleum hydrocarbon
TPHd	total petroleum hydrocarbon as diesel
TPHg	total petroleum hydrocarbon as gasoline

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UST	underground storage tank
U.S. EPA	United States Environmental Protection Agency
VOC	volatile organic compound
WWTA	wastewater treatment area

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Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

1.0 INTRODUCTION

The California Department of Toxic Substances Control (DTSC) established Contract Agreement No. 10-T1101 with AMEC Environment & Infrastructure (AMEC) to conduct a data gap investigation (DGI) for the former Crown City Plating Company (CCPC) site located at 4350 Temple City Boulevard, El Monte, California (the site; Figure 1). The DGI included development and implementation of a DGI work plan and preparation of this DGI report. The State of California is funding the site remedial investigation (RI) because the site has been abandoned and previous CCPC owners filed for bankruptcy protection. This RI has been conducted by AMEC under two separate contracts with DTSC; the first was a Supplemental Site Investigation (SSI) conducted in 2010 and the second (current) contract for this DGI.

In 2010, AMEC implemented a SSI at the site following the DTSC-approved RI Work Plan (AMEC, 2010a). The purpose of the SSI was to identify historical site-related chemical uses, assess the result of previous investigations conducted at the site, and further assess the presence and distribution of chemicals of potential concern (COPCs) in the subsurface. At the completion of the SSI, AMEC prepared the RI Report (AMEC, 2010b) to present results of the SSI and identify data gaps related to site-related chemicals in soil and sediment at the site. The data gaps included areas of the site where elevated concentrations of (COPCs were detected in the subsurface but had not been characterized in terms of concentration or later or vertical extent. Other data gaps included suspect areas of the site where COPCs may have been released to the subsurface but had not been investigated as part of the SSI. The purpose of the DGI was to further assess the presence and distribution of COPCs in soil at the site, to identify areas of chemical impact to the extent feasible, and to provide data for use in making decisions regarding the potential need and approach for additional work necessary to address environmental conditions in soil at the site.

In 2012, AMEC implemented DGI activities at the site following the DTSC-approved DGI Work Plan (AMEC, 2012). The DGI was implemented in two separate mobilizations between February 28 and June 19, 2012. During the DGI, soil samples were successfully collected from most proposed locations. However, sampling could not be completed as proposed in some portions of the site that were inaccessible.

1.1 OBJECTIVES AND SCOPE

The 2010 SSI identified several metals and volatile organic compounds (VOCs) as the primary COPCs in soil and soil gas, respectively, at the site. Groundwater was excluded from the DTSC-funded site investigation. While the 2010 SSI was considered adequate to assess the presence and distribution of VOCs in soil gas, data gaps remained in relation to the presence and distribution of metals in soil.

The objectives of the DGI were as follows:

- Assess the scope and results of previous investigations of subsurface environmental conditions regarding the presence and distribution of COPCs at the site;
- Further assess the presence and distribution of COPCs in soil at the site through sample collection and analysis;
- Evaluate the cumulative information regarding subsurface conditions to identify areas where impact to soil may have occurred; and
- Identify areas in which further investigation would be required to more fully assess subsurface conditions at the site and/or support potential future remedial efforts.

AMEC conducted the following activities to address the objectives described above:

- Prepared the DGI Work Plan (AMEC, 2012), which included a field sampling and analysis plan (SAP) described therein;
- Conducted field sampling and laboratory analyses in accordance with the DGI Work Plan and SAP;
- Reviewed data obtained from the initially-planned DGI borings, identified additional data gaps, and implemented “step-out” sampling around areas where elevated concentrations of COPCs were detected;
- Evaluated the new data along with results of previous investigations; and
- Prepared this report to summarize the methods and findings of work conducted as part of overall site remedial investigation.

The cumulative data obtained as part of the previous SSI and current DGI were evaluated with respect to attainment of the above-noted objectives in preparing this DGI Report.

1.2 REPORT ORGANIZATION

This report is organized into the following sections:

1.0 Introduction
2.0 Site Background
3.0 Physical Characteristics
4.0 Previous Investigation Results and Data Gap Areas
5.0 DGI Investigation
6.0 Nature and Concentration of Contaminants
7.0 Screening Level Evaluation
8.0 Summary of Findings
9.0 Recommendations
10.0 References

Additional supporting information is presented in tables, figures, and appendixes.

2.0 SITE BACKGROUND

The site is located in an industrial area in the western portion of the City of El Monte, Los Angeles County, California (Figure 2). It is located north of the Union Pacific railroad tracks, and east of Temple City Boulevard. The site includes three parcels, informally referred to as the central, eastern and southern parcels. CCPC owned the central and eastern parcels (approximately 10 acres) and leased the southern parcel (approximately 2 acres) from the Southern Pacific Transportation Company (SPTCo) (Figure 2).

Existing structures reportedly cover approximately reported 278,000 square feet of the site (AMEC, 2010a). The two main buildings located in the central parcel (northern and southern buildings) were used for parts plating, polishing, painting, and molding. These buildings also included an administration office, shipping and receiving, and a warehouse. A smaller maintenance building was located in the northeast corner of the central parcel. The southern parcel includes two buildings that reportedly were used for storage and an office/warehouse. The eastern parcel includes several buildings that reportedly were used for painting, machining, molding, and storage (AMEC, 2010a).

2.1 HISTORICAL OPERATIONS

CCPC operated a metals plating facility at the site from 1956 through 2004, with operations conducted primarily on the central parcel. Site operations included large scale, mass production electroless plating, electroplating, burnishing, and painting of automotive, hardware, and decorative parts (AMEC, 2010a). Plastic injection molding also was performed

at the site. During its operations, CCPC reportedly was one of the largest metal finishers in the United States specializing in brass, chrome, copper, and nickel plating, as well as plastics plating and finishing for the automotive, electronics, plumbing, and hardware industries. Some gold and silver plating also took place at the site (AMEC, 2010a).

An 800-foot deep production well, located in the courtyard area of the site (Figure 2), was used to provide all domestic and industrial water to the facility. This well was constructed with a perforated zone between 206 to 804 feet below ground surface (EMCON, 1989). In 1984, the static water level was reported at depth of 98 feet (EMCON, 1989). According the CCPC (1997), the deep production well remains free of contamination and produced potable water in excess of 500 gallons per minute since its installation in 1962.

Three Permit-By-Rule (PBR) regulated treatment units were located at CCPC (DTSC, 2006). These included:

- Oil Water Separation Unit (PBR unit #1),
- Batch Treatment Unit (PBR unit #2), and
- Environmental Treatment Unit (PBR unit #3) or wastewater treatment area.

The reported location of PBR unit #3 and the approximate locations of the former PRB units #1 and #2 are shown on Figure 2 (the specific locations of former PBR Units #1 and #2 are not documented in information we have reviewed).

PBR unit #1 was used to treat constituents including used oil, mixed oil, oily water, and oil/water sludge (DTSC, 2006). PBR unit #2 included two batch treatment units used for neutralization, precipitation, and chrome reduction of inorganic acids and bases, plating solutions, and chrome wastewater (DTSC, 2006). On-site treatment of most process-related solutions occurred at PRB unit #3, the wastewater treatment area (WWTA). The WWTA consisted of a ground-level treatment area and a below-grade treatment room (basement). WWTA operations included treating aqueous waste streams such as oily water, corrosive solutions, and solutions containing hexavalent chromium, other metals, and cyanide. Treated materials were reused during site operations, transported off-site, or discharged to the local sanitary sewer.

The following plating lines were identified at the site:

- Metal Plating Department (Hand Plating Line located on the southwestern side of northern building)

- No. 1 Plating Line (northern building)
- No. 3 Plating Line (Plastic Plating Room in northern building)
- No. 5 Plating Line (Plastic Plating Room in northern building)
- No. 6 Plating Line (southern building)
- No. 7 Plating Line (southern building)

All plating lines and plating tanks were installed above pits/sumps to provide access to the bottoms of the tanks (EMCON, 1989). The plating line tanks were located aboveground and supported on steel/concrete structures with clear access to the bottom of the tanks. The below-grade plating line pits/sumps also served as secondary containment. Chemicals were added into the tanks as needed (EMCON, 1989). Wastewater from Plating Lines 3 and 5 were reportedly piped via exposed piping to the WWTA. An underground tunnel connected the Metal Plating Department and Plating Line 1 to the WWTA. Separate underground tunnels connected Plating Lines 6 and 7 to the WWTA. Figure 2 shows the former plating line locations and underground tunnels.

Based on review of LACSD records, the WWTA was constructed sometime between 1974 and 1977. Information on how wastes were treated or managed prior to construction of the WWTA is not available. Once the WWTA was completed, the sewer connection from the northern building was disconnected and treated wastewater from the WWTA was piped through the southernmost sewer pipe (Figure 2). Treated wastewater was discharged from the WWTA to the sanitary sewer pursuant to permits 755 and 5529 from the Los Angeles County Sanitation District (LACSD). Permit 755, issued June 6, 1974, allowed for discharge of 798,066 gallons per day (gpd). Permit 755 was superseded by Permit 5529, which was issued on October 31, 1977 and allowed for discharge of 600,000 gpd (flow rate limits were increased during subsequent revisions to Permit 5529). Several notices of violations were issued by the LACSD to CCPC due to failure to pay surcharge fees, exceedence of effluent discharge limits, and violation of industrial wastewater discharge regulations. The LACSD reported that the onsite flume connection to the sewer system was sealed in June 2008 (AMEC, 2010a).

2.2 HISTORICAL CHEMICAL USE AND AREAS OF CONCERN

CCPC reportedly was one of the largest metal finishers in the United States specializing in brass, chrome, copper, and nickel plating. The primary elements and chemicals used at the site in plating bath solutions are listed below (AMEC, 2010a).

- Chromium

- Copper
- Nickel
- Cyanide
- Sulfuric acid
- Nitric acid
- Caustic (sodium hydroxide)

CCPC reported use of 1,1,1-trichloro ethane (TCA), toluene, wash thinner, cutting oil, and other chemicals. TCA reportedly was used as a parts degreaser. A 1992 Toxic Organic Management Plan identified use of paints (600 gallons), of Metsol 2 (perchloroethylene [also known as tetrachloroethene or PCE] and TCA mixture) (55 gallons), methylene chloride (1 gallon), TCA (400 gallons); and toluene (110 gallons) at the site. The 1992 Toxic Organic Management Plan did not indicate what period of time these chemicals were used and quantities present at the site.

Fifteen underground storage tanks (USTs) were previously operated by CCPC. Thirteen USTs were located on property owned by CCPC (central parcel) and two were located on property owned by SPTCo (southern parcel). These USTs included:

- eight for fuel oil (diesel no. 2);
- two for absorption oil;
- one for nitric acid;
- one for waste oil; and
- three for motor vehicle fuel (regular gasoline, unleaded gasoline, and diesel).

The nitric acid tank, reportedly removed in 1985, was noted to have leaked into the soil. However, UST closure and soil removal documentation was not available to DTSC or AMEC (AMEC, 2010a). The remaining USTs were closed in 1995 and 1999 (Section 2.4).

On May 7, 1992, the California Regional Water Quality Control Board, Los Angeles Region (RWQCB) issued Cleanup and Abatement Order No 92-001 (the Order) to CCPC and SPTCo.

Several environment investigations were conducted pursuant to the Order. However, the site was given low priority status by RWQCB in 2001 due to budgetary constraints (AMEC, 2010a).

On March 14, 2005, DTSC conducted a site inspection to verify information submitted on a Tiered Permitting Phase I Environmental Assessment Checklist. At that time, CCPC was engaged in the management of hazardous waste pursuant to a PBR issued by DTSC on July 8, 1993 for the three regulated treatment units at the site (Section 2.1). Based on the site inspection and review of available files, DTSC determined that further investigation was required to assess the nature and extent of any release of hazardous waste or hazardous waste constituents at the site. On January 5, 2006, DTSC and CCPC entered into a Corrective Action Consent Agreement (Consent Agreement) to oversee further investigation of sixteen Areas of Concern (AOCs) identified at the site. The following AOCs were identified.

- AOC 1. Metal Plating Area
- AOC 2. Paint Shop Room
- AOC 3. Metal Parts Storage Room (previous location of degreaser)
- AOC 4. Alleyway (north side of northern building)
- AOC 5. Plastic Plating Room (northeast corner of northern building)
- AOC 6. Sump Area (outside Plastic Plating Room; these features were also reported as clarifiers)
- AOC 7. Backyard Hazardous Waste Storage Area
- AOC 8. Metal Stripping Room (southwest corner of Maintenance building)
- AOC 9. Aboveground Spent Chemical Holding Tanks (located in pit between the Maintenance building and northeast corner of Warehouse)
- AOC 10. Paint Department (eastern parcel)
- AOC 11. Storage Shed (eastern parcel)
- AOC 12. Mold Shop Room (eastern parcel)
- AOC 13. Plastic Plating Department (southern building)

- AOC 14. Underground Storage Tanks Area (in area known as the Courtyard)
- AOC 15. Drum Wash Area
- AOC 16. Wastewater Treatment Area

Although several environmental investigations of the AOCs were conducted (Section 2.4), CCPC was not able to complete assessment and remediation of the site as required by the Consent Agreement. In late 2004, CCPC ceased site operations and subsequently sought bankruptcy protection. Between 2004 and 2007, CCPC conducted site closure activities, including the disposal or removal of plating solutions and equipment. However, funding for closure activities was depleted before all hazardous substances and wastes were removed and cleanup was completed. CCPC subsequently abandoned the site. In 2008, the United States Environmental Protection Agency (U.S. EPA) completed an emergency response to remove unsecured containers of waste materials from the site. On September 2, 2009, DTSC issued an Imminent and Substantial Endangerment Determination to the CCPC property and subsequently initiated the SSI and DGI activities.

2.3 EL MONTE OPERABLE UNIT

The site is located within the El Monte Operable Unit (EMOU) of the San Gabriel Valley Area 1 Superfund Site. In May 1990, the U.S. EPA issued a Notice of Potential Liability for the San Gabriel Valley Superfund Site to CCPC. The SSI/DGI does not address potential groundwater impacts associated with CCPC operations or potential regulatory requirements associated with the U.S. EPA's Notice of Potential Liability for the San Gabriel Valley Superfund Site issued to CCPC.

2.4 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

As noted earlier, several investigations and remedial actions were conducted at the site. Remedial activities and significant results of investigations are summarized below.

UST Investigations

- Between 1995 and 1999, investigations for closure of 14 of the 15 USTs were conducted pursuant to UST closure permits issued by the County of Los Angeles Department of Public Works. As noted earlier, the 15th tank (nitric acid) reportedly was removed in 1985 (no documentation has been located). Six USTs were removed and ten USTs were abandoned in-place. Soil samples collected from locations beneath and in the vicinity of the USTs were analyzed for total petroleum hydrocarbons (TPH) and VOCs. Elevated concentrations of TPH or VOCs were not detected in any of the

soil samples, except for those from the side wall excavation for the UST 13 dispenser and two borings on east side of USTs 5 and 6.

- Soil impacted with TPH as gasoline (TPH-g) and VOCs were removed from the UST 13 dispenser area. However, impacted soil from the side wall excavation was left in-place due to the close proximity to the loading dock. TPH-g was detected in the remaining soil at concentrations up to 14,000,000 micrograms per kilogram (µg/kg); PCE and trichloroethene (TCE), among other VOCs, were detected in the remaining soil at concentrations up to 37 and 39 µg/kg, respectively. This matter was referred to the RWQCB.

- Elevated concentrations of TPH as diesel (TPH-d) were detected in soil samples from borings on the east side of USTs 5 and 6. TPH-d was detected at concentrations up to 2,100,000 µg/kg. This material was left in place and the matter was referred to the RWQCB.

- During the 2010 SSI, AMEC collected eight soil samples from two locations (SB1 and SB2) in the former UST 13 dispenser area. Soil samples were analyzed for TPH and VOCs. Slightly elevated concentrations of TPH and VOC were detected in some soil samples, but concentrations were below screening levels (AMEC, 2010a).

Soil Gas Investigations

- In 1993 and 1994, soil gas samples were collected from 24 probes installed at depths between 5 and 15 feet and analyzed for VOCs using a portable gas chromatograph. Elevated concentrations of VOCs were detected in samples collected from areas around the former drum storage area (southern parcel), the southeast portion of the central parcel, the storm drain located between the warehouse and maintenance buildings, and the chemical storage shed outside paint department (eastern parcel). However, notes from RWQCB staff indicate they did not oversee the investigation due to the consultant's consistent equipment problems. Thus, these results were considered suitable for "screening level" purposes only (AMEC, 2010a).

- In 1995, soil gas probes were installed at depths between 10 and 40 feet in areas identified during the 1993/1994 soil gas investigation. Elevated concentrations of PCE, TCE, and TCA up to 81, 24, and 344 micrograms per liter (µg/L), respectively, were detected in samples collected from probes installed in the former drum storage area and the storm drain located between the warehouse and maintenance buildings. PCE and TCE were detected in soil gas samples from the southeast portion of the central parcel at concentrations up to 3 and 12 µg/L, respectively.

- In 2004, soil gas sampling was conducted from probes installed at the depth of 5 feet at 91 locations spread throughout the site. PCE and TCE were detected in samples collected from probes installed in the molding department and warehouse, former drum storage area, and southeast portion of the central parcel at concentrations up to 1,241 and 2,630 µg/L, respectively. Subsequently, four permanent nested soil gas wells were installed in the molding department (VW-1), former drum storage area (VW-2), southeast portion of the central parcel (VW-3), and in the eastern parcel (VW-4). At each location, nested soil gas probes were installed at the depths of 20, 40, 60, and 80 feet. PCE and TCE were detected in samples collected from probes at VW-1 and VW-3 at concentrations up to 697 µg/L (VW-3 at 20 feet) and 2,114 µg/L (VW-2 at 40 feet), respectively. PCE and TCE were detected in to 80-foot depths samples at concentrations up to 239 µg/L (VW-1) and 1,290 µg/L (VW-3), respectively.

- During the 2010 SSI, soil gas sampling was conducted from probes installed at depths between 5 and 15 feet at 44 locations in the central and eastern parcel. Elevated VOCs (primarily PCE and TCE) were detected in probes installed in the molding department and southeast portion of the central parcel at concentrations up to 260 and 720 µg/L, respectively.

- During the 2010 SSI, soil gas samples were collected from permanent nested soil gas probes VW-1, VW-3, and VW-4. Elevated VOCs (primarily PCE and TCE) were detected in VW-1 and VW-3 at concentrations up to 970 and 3,000 µg/L, respectively.

Subsurface Soil Sampling

- Between 1987 and 1989, several soil borings were drilled in the former drum storage area in the southern parcel and soil samples were collected to depths of 20 feet. VOCs (primarily PCE and TCA) were detected in several soil samples at concentrations up to 320 and 2,890 µg/kg, respectively.

- Three groundwater monitoring wells were installed to depths of approximately 100 feet during 1988/1989 investigations. Two wells (E-1 and E-2) were installed in the southern parcel and one well (E-3) was installed in the eastern parcel. Soil samples were collected at various depths during drilling of the borings drilled for well installation. TCE was detected in two soil samples at concentrations up 11 µg/kg (E-2 at 40 feet and E-3 at 80 feet) and TCA was detected in one soil sample at a concentration of 43 µg/kg (E-1 at 40 feet).

- As noted earlier, in 2004 four permanent nested soil gas wells were installed in the molding department (VW-1), former drum storage area (VW-2), southeast portion of

the central parcel (VW-3), and in the eastern parcel (VW-4). Soil samples were collected at various depths during drilling of the borings used for installation of the nested soil gas wells. PCE and TCE were detected in several samples collected from VW-1 (including samples from depths of 70 and 75 feet) at concentrations up to 440 and 2,100 µg/kg, respectively. PCE and TCE were detected in several samples collected from VW-3 (including samples from depths of 70 feet) at concentrations up to 140 and 630 µg/kg, respectively.

- Soil samples were collected from 42 borings at 16 AOCs during the 2006 investigation by Clayton Group Services, Inc. (Clayton). Soil samples were analyzed for VOCs, semi-volatile organic compounds (SVOCs), TPH, metals, and hexavalent chromium. Generally, the deepest sample of each boring was analyzed for metals. Two background soil samples were collected and analyzed for metals. The soil samples did not contain reported concentrations of VOCs, SVOCs, or TPH. Hexavalent chromium was detected in several soil samples at concentrations up to 55.6 milligrams per kilogram (mg/kg).

- During the 2010 SSI, 87 soil samples were collected from 64 locations at the 16 AOCs in the central and eastern parcels. Sampling depths ranged from 0.5 feet to 20 feet. Concentrations of arsenic, chromium, hexavalent chromium, copper, lead, and nickel exceeding either respective screening levels or estimated background levels were detected in soil samples collected from locations in AOCs 1, 5, 6, 7, and 13 (Section 7.1 and 7.3). During the SSI, a majority of AOC 16 was under water and soil samples were collected only from limited accessible locations (Section 4.2).

Groundwater Investigation

- As noted above, groundwater monitoring wells E-1 and E-2 were installed in the southern parcel and well E-3 was installed in the eastern parcel during 1988/1989 investigations. Between 1989 and 1998, PCE and TCE were detected in groundwater samples from E-1 and E-2 at concentrations up to 600 and 3,600 µg/L, respectively. Reported concentrations of chromium and nitrate in E-2 also exceeded their respective drinking water Maximum Contaminant Levels (MCLs).

- PCE and TCE were detected in groundwater samples from E-3 at concentrations up to 34 and 730 µg/L, respectively.

- Monitoring wells E-1 and E-3 were dry during the 2010 SSI.

Water Sampling

- During the 2010 SSI, water that had entered the building through leaks in the roof and accumulated in AOCs 5, 6, 9, and 16 was sampled and analyzed for metals and hexavalent chromium. Elevated hexavalent chromium concentrations were detected in samples collected from AOCs 5 and 16.

- In addition to the above, during the 2010 SSI the water accumulated in AOC 9 6 was also sampled and analyzed TPH. Elevated TPH concentrations as diesel and motor oil were detected two sump/clarifier samples.

Particle/Sediment Sampling

- During the 2010 SSI, sediments accumulated on the roof of the northern building (roof sample) and in a sump (sump sample) at the southeast corner of the Courtyard were sampled. Both samples were analyzed for hexavalent chromium. The roof sample was also analyzed for other metals. Hexavalent chromium was detected in the sump sample at a concentration exceeding screening levels (Section 7.2). Elevated concentrations of chromium, copper, lead, nickel, and zinc were detected in the roof sample.

Building Material Sampling

- During the 2010 SSI, concrete and brick samples were collected from locations in AOCs 1 and 5. Wipe samples were collected from AOCs 1, 5, and 13. All samples were analyzed for metals and hexavalent chromium. All brick and concrete samples were reported to contain elevated concentrations of chromium, hexavalent chromium, copper, lead, and nickel. Elevated concentrations of hexavalent chromium, copper, nickel and cyanide were detected in several wipe samples.

- In addition to physical samples, x-ray fluorescence (XRF) methods were used to assess metallic composition in building surfaces during the 2010 SSI. A total of 101 XRF readings were taken from various locations in the plating line pits/sumps from AOCs 1, 5 and 13. Elevated concentrations of chromium, copper, lead, nickel, and zinc were detected in most XRF locations.

Summaries of environmental investigations and sample results for the above-listed areas are provided in the RI Work Plan and RI Report (AMEC, 2010a and b, respectively). Copies of relevant analytical data summary tables and figures from these documents are provided in Appendix A.

2.5 CURRENT CONDITIONS

CCPC filed for bankruptcy protection and abandoned the site. As a result of bankruptcy proceedings, the fee title to the property was transferred to Continental Business Credit, Inc. (CBC) in mid-2008. Currently, the site is abandoned and boarded to prevent trespassing. Most of the exterior sumps were emptied and covered with plywood. Additionally, most doors and areas of access to site buildings were boarded to prevent trespass. CBC constructed perimeter fencing and secured building access points to restrict unauthorized entry. They also provide a security guard to restrict entry to the site.

Most of the former plating equipment and machinery has been removed from the interior of the buildings. However, most above-ground piping and ventilation piping remains. Some tanks remain inside the northwestern portion of the northern building and outside the north side of the northern building (AOC 6). Most of the WWTA equipment remains in AOC 16, on both the ground level area and in the basement, and piping is still present in the underground tunnels. The large below-grade pits/sumps at the locations of the previous plating lines and operation areas are still present. Most plating line areas contain drainage channels and secondary sumps at the bottoms of the below-grade pits/sumps. In general, the exposed concrete pits and flooring in areas of former operations are in poor condition and show signs of deterioration, etching, and chemical staining.

Portions of the site buildings (i.e. warehouse, shipping and receiving, molding department, and portions of the plating room) are located on raised foundations about 3 to 5 feet above ground surface. Most of the buildings are bisected with below-grade utility trenches, some of which are placed underground to connect to other buildings and/or the WWTA. The concrete flooring in areas with raised foundations appeared to be in relatively good condition. A drainage swale located on the north and east sides of the northern building directs surface water flow southward (Figure 2). In 2010, an area of stained asphalt was observed in the paved area east of the southern building (southeast parking lot).

Part of the building roof remains in disrepair and water leaks through the roof and accumulates in the below-grade pits/sumps during rain events. In 2010, several of the plating lines, outdoor sumps/pits, and the WWTA basement contained standing water. In 2011 and 2012, prior to implementing DGI activities, water accumulation was observed in AOCs 1, 5, 9, 13, and 16.

3.0 PHYSICAL CHARACTERISTICS

This section summarizes information about the physical characteristics and setting of the site.

3.1 TOPOGRAPHY AND SURFACE WATER DRAINAGE

The site topography is relatively flat, with an elevation of approximately 300 feet above mean sea level. The nearest surface water body is the Rio Hondo, located approximately one mile southeast of the site. The concrete-lined Eaton Wash channel is located adjacent to the southwest corner of the site (Figure 2).

Regional surface water flow in the vicinity of the site is southward toward the Whittier Narrows. At the site, surface water generally flows southeastward to a drainage ditch along the eastern property boundary (Figure 2). The drainage ditch discharges to Eaton Wash away from the site, Eaton Wash then discharges to the Rio Hondo approximately a mile south of the site.

3.2 REGIONAL GEOLOGY

The site is located in the Greater Los Angeles Basin, within the central portion of the San Gabriel Valley. The San Gabriel Valley contains Recent and Pleistocene age alluvial material composed of unconsolidated to semi-consolidated sand, silt, clay, and gravel that originated from the San Gabriel Mountains to the north. The San Gabriel Basin, which underlies most of the San Gabriel Valley, is bounded on the north by the San Gabriel Mountains; on the northwest by the Raymond fault; on the west and south by the Repetto, Merced, Puente, and San Jose Hills; and on the east by a subsurface bedrock high between San Dimas and La Verne (AeroVironment, 1995).

3.3 SITE GEOLOGY

Previous site assessment activities have characterized shallow subsurface soils encountered at the site as unconsolidated alluvium. Shallow soils have been described as predominately silty sand and sandy silt with some gravel (American Integrated Services, Inc [AIS] 1999; Clayton, 2006; NorCal Engineering 2007). Boring logs by Environmental Solutions (1990) report sands and silty sands throughout borings at the site in both the saturated and unsaturated zones to depths of 110 feet, the maximum depth of exploration.

During the DGI, soil borings were drilled to a maximum depth of 40 feet. Silty sand was observed from the surface to depths of between six and ten feet and was underlain by a zone of poorly graded sand as much as nine feet thick. Silty sand continued below the poorly graded sand. These lithologies were confirmed by grain size analyses conducted from samples collected within the upper silty sand and underlying poorly graded sand zones.

3.4 REGIONAL HYDROGEOLOGY

The water-bearing formations in the San Gabriel Basin consist of sand, gravel, and cobbles over 4,000 feet in thickness. Groundwater movement is generally in a southward toward the Whittier Narrows where groundwater discharges to the Los Angeles Central Groundwater Basin (Clayton, 2006).

The site is located within the El Monte Operable Unit of the San Gabriel Valley Area 1 Superfund Site. The EMOU is located mostly west of the Rio Hondo, where the alluvial deposits are stratified and generally of lower hydraulic conductivity (Camp Dresser & Mckee [CDM], 1998). Vertical hydraulic conductivity is substantially less than horizontal hydraulic conductivity (CDM, 1998). Regional horizontal groundwater flow is generally toward the Whittier Narrows. However, groundwater flow in the EMOU also appears to be influenced by substantial pumping of groundwater west of the EMOU (CDM, 1998).

3.5 SITE HYDROGEOLOGY

Three groundwater monitoring wells designated E-1, E-2, and E-3 have been installed at the site (Figure 2). Monitoring wells E-1 and E-2 are located on the southern parcel. Monitoring well E-3 is located on the eastern parcel. Groundwater elevation data were reported between 1990 and 1998. Based on groundwater elevation data for the site, the groundwater flow direction beneath the site was generally southward from 1990 through 1997 and the groundwater gradient was relatively flat. However, groundwater elevation data from other monitoring wells located around the CCPC site indicate groundwater flow in 1986 was toward the west. The site groundwater elevation data suggest a westward groundwater flow beneath the site beginning in June 1997 and then eastward flow in January 1998 (CCPC, 1998).

Groundwater elevations also have varied over time. In January 1989, groundwater was first measured in monitoring well E-1 at a depth of approximately 74 feet. By February 1990, the groundwater level in monitoring well E-1 had dropped to a depth of approximately 80 feet and in November 2009, the well was dry (indicating a depth to groundwater greater than 88 feet).

4.0 PREVIOUS INVESTIGATION RESULTS AND DATA GAP AREAS

As noted in Section 2.4, several investigations (including the 2010 SSI) have been performed at the site. Previous results summarized in the 2010 SSI investigation (AMEC, 2010a; 2010b) were compared to Office of Environmental Health Hazard Assessment (OEHHA) California Human Health Screening Levels (CHHSLs) for residential and commercial/industrial land use. The findings and screening results were summarized in the RI Report (AMEC, 2010b) and formed the basis for the DGI sampling plan (AMEC, 2012).

A summary of 2010 SSI findings and data gaps identified in the RI Report (AMEC, 2010b) and DGI Work Plan (AMEC, 2012) are presented in the following sections. Figure 3 identifies the previous SSI sample locations.

4.1 AREAS OF METAL RELEASE

The SSI identified six AOCs where metals were released to subsurface soils. Concentrations of several metals exceeded apparent background levels and/or relevant soil screening levels noted above. These areas are discussed below.

AOC 1: The 2010 SSI sample results indicated that metals were released to the subsurface soils in the former Metal Plating Department and Plating Line 1. The reported concentrations of hexavalent chromium (120J mg/kg) and lead (570 mg/kg) exceeded their respective CHHSLs in a soil sample from location AC01-15. Soil sample AC01-15 was collected from soil beneath a brick-lined drainage channel in the former Metal Plating Department.

AOC 5: The 2010 SSI sample results indicated that metals have been released to the subsurface near former Plating Lines 3 and 5. The reported concentrations of hexavalent chromium (160J mg/kg), lead (420 mg/kg), and nickel (25,000 mg/kg) exceeded their respective CHHSLs in soil sample AC05-04. Soil sample AC05-04 was collected from beneath a sump in former Plating Line 3. Elevated concentrations of hexavalent chromium, copper, and lead were also detected in a grab water sample that was collected from a sump in former Plating Line 5.

AOC 6: The 2010 SSI sample results indicated that metals have been released to the subsurface around the East Clarifier/Sump. This area of apparent release was indicated by elevated concentrations of chromium, hexavalent chromium, copper, lead, and nickel in shallow soil (0.5 feet) and deeper soil (4.5 feet). Hexavalent chromium was detected in soil sample AC06-02-0.5 at a concentration of 150 mg/kg, which exceeds the CHHSL for hexavalent chromium. Chromium, hexavalent chromium, copper, and/or lead were also detected in grab water samples AC06 and AC06-3 collected from two sumps in AOC 6. However, no additional DGI sampling was recommended because access to other portions of AOC 6 is restricted by the presence of equipment/structures and sumps associated with former operations in this portion of the site.

AOC 7: The 2010 SSI sample results indicated that metals have been released to the subsurface around the former Backyard Hazardous Waste Storage Area. The reported concentration of hexavalent chromium (89 mg/kg) exceeded its CHHSL in soil sample AC07-02-0.5. In addition, the reported concentration of arsenic (130 mg/kg) in this sample exceeds the apparent background level for arsenic (Section 7.1).

AOC 9: The 2010 SSI sample results suggest that metals may have been released to the subsurface around the former Spent Chemical Holding Tank area, which is evidenced by slightly elevated concentrations of chromium, copper, lead, and nickel in soil samples AC09-01 and AC09-02, which were collected just beneath the former tank holding pit in AOC 9. Reported concentrations of these metals did not exceed CHHSLs.

Soil sample AC09-03-0.5 was collected inside the drainage swale downstream from AOC 6 and north of the former Spent Chemical Holding Tanks area. The SSI sample results indicated that elevated concentrations of arsenic, chromium, copper, lead, and nickel are present in shallow soil, although reported concentrations of these metals did not exceed CHHSLs, except for arsenic. Arsenic was detected in soil sample AC09-03-0.5 at a concentration of 13 mg/kg, which appears to exceed background levels (Section 7.1).

AOC 13: The 2010 SSI sample results indicate that metals have been released to the subsurface beneath Plating Line 6 as evidenced by elevated concentrations of chromium, hexavalent chromium, copper, lead, and nickel. Hexavalent chromium concentrations in soil samples collected from depths of 0.5 and 5.5 feet at AC13-02 (1,600 and 1,100J mg/kg, respectively) and hexavalent chromium and lead concentrations from a depth of 0.5 feet at AC13-06 (1,300 and 480 mg/kg, respectively) exceeded their respective CHHSLs.

4.2 SUSPECT RELEASE AREAS

Three areas of the site were identified during the 2010 SSI (AMEC, 2010b) as potential release areas based on visual observations or previous sample results. These suspect release areas are discussed below.

Sump Sediment: The “sump sediment” collected from the southeast corner of the courtyard indicated that shallow sediments in this area of the site have been impacted by hexavalent chromium. Hexavalent chromium was detected at a concentration of 400 mg/kg. The sump appears to collect surface water flow in the courtyard area, and it directs the flow of surface water beneath the building and toward the east. Because the outflow area was not identified during the SSI, it was considered a data gap (the apparent outflow area shown on Figure 3 was identified outside the southwest corner of the warehouse during the DGI).

AOC 16: Previous soil sampling in the basement of the former WWTA was limited because of accumulated rain water and the presence of storage/treatment tanks and structures associated with former operations. While the basement contained water, hexavalent chromium was detected in grab water samples at concentrations of 1,500 and 1,600 µg/L. Cyanide was also detected in the grab water samples at concentrations of 13 and 16 µg/L. Because of the lack of soil samples beneath remaining storage/treatment features and/or

sumps/topographic low spots inside AOC 16, this area was considered a data gap during the SSI.

Southeast Parking Lot: Areas of stained asphalt were observed in the paved parking area east of the southern building (Plastic Plating Department or AOC 13). During the DGI, another area of staining was observed near the apparent outflow area from the "sump sediment." It was unclear what caused the staining. Because of the lack of shallow soil samples from locations in the southeast parking lot beneath the stained asphalt, this area was considered a data gap during the SSI.

4.3 AREAS OF VOC RELEASE

The 2010 SSI results along with data collected during previous investigations by others indicate 2 primary areas of VOC release to the subsurface (AMEC, 2010b). These areas were designated:

- Molding Department and Warehouse Building; and
- Southeast Portion of Central Parcel.

PCE and TCE were found to be the primary VOCs in soil gas beneath these portions of the site. The lateral and vertical extent of VOC impact was adequately defined as shown on Figures 8 through 12 in the RI Report (AMEC, 2010b) (Appendix A). Some other limited areas of VOC impact were also recognized at the site. No additional soil gas sampling was implemented during the DGI.

5.0 DGI INVESTIGATION

Soil sampling was conducted in AOCs 1, 5, 7, and 13, in areas around AOC 9, and in the southeast parking lot during the March 2012 DGI sampling event. Additional soil sampling was conducted in AOC 13 and in the southeast parking lot during the June 2012 DGI sampling event. DGI sampling was not implemented in the AOC 9 sump or AOC 13 WWTA because of accumulated rain water. DTSC staff was present at the site during DGI activities on March 5 and June 19, 2012.

5.1 DEVIATIONS FROM PROPOSED WORK SCOPE

The DGI was implemented following the procedures and methodologies described in the DGI Work Plan (AMEC, 2012). Deviations from the proposed work scope are described below.

- On February 28, 2012, water accumulated in AOCs 1, 5, and 13 was pumped and contained in two Baker tanks to allow for access to these areas. AOCs 9 and 16 could not be accessed because of significant rain water accumulation in these areas

(containment and disposal of water from these areas would have expended the entire contract funding).

- Additional soil samples were collected from two locations in AOC 1, Plating Line 1, and selected soil samples were analyzed for metals and hexavalent chromium.
- Additional soil samples were collected from two locations in AOC 13, Plating Line 7, and selected soil samples were analyzed for metals and hexavalent chromium.
- Two soil samples were submitted to PTS Laboratories for physical properties analyses at the request of DTSC staff.
- The June 2012 event was implemented to collect "step out" soil samples from locations in AOC 13 and in the southeast parking lot. The purpose of step out sampling was to assess the lateral and vertical extent of metals impact identified during the March 2012 event.
- Several soil samples collected during the June 2012 event were analyzed for perchlorate at the request of DTSC staff.

DTSC staff was informed of the field conditions and the deviations were performed with DTSC staff's direction and/or concurrence.

5.2 FIELD ACTIVITIES

AMEC conducted the following activities:

- pre-field activities;
- water containment and disposal;
- soil sampling; and
- investigation derived waste (IDW) management.

Each activity is described below.

5.2.1 Pre-field Activities

Before initiating each phase of the DGI field work, AMEC conducted the following pre-field activities:

- notified DTSC and CBC of field activities, and arranged access to the site;

- notified Underground Service Alert of the upcoming field activities; and
- contracted and scheduled the subcontractors.

The DGI subcontractors included:

- K-VAC Environmental Services, Inc. (K-VAC) for water containment, transport, and disposal;
- Gregg Drilling & Testing (Gregg) for drilling services to collect soil samples from areas inside buildings;
- InterPhase Environmental Inc. (InterPhase) for drilling services to collect soil samples from locations inside the building and in the southeast parking lot; and
- Moore Twining Associates, Inc (MTA) and Calscience Environmental Laboratories (CEL) for analytical services.

No permits were needed to implement the DGI.

5.2.2 Water Containment and Disposal

AMEC subcontracted K-VAC to pump and contain water that had entered the building through leaks in the roof and accumulated in some of the proposed DGI sampling areas. On February 28 and 29, 2012, accumulated water in AOCs 1, 5, and 13 was pumped and temporarily contained in two Baker Tanks (the water in AOC 13 was contained in a separate tank because it appeared discolored). A water sample was collected from each tank and submitted to CEL for waste profile analysis. Water contained from AOC 13 was profiled as hazardous waste, while the water contained from AOCs 1 and 5 was profiled as non-hazardous waste.

The analytical data reports and disposal records for the accumulated rain water are included in Appendix B.

5.2.3 Soil Sampling

DGI soil sampling was conducted during both the March and June 2012 events. The DGI soil sampling locations are shown on Figure 4. Table 1 describes the DGI sample locations and sampling rationale. Field logs are provided in Appendix C.

<u>March 2012 Event</u>

Soil sampling was conducted at/around AOCs 1, 5, 7, 9 and 13, and the southeast parking lot between March 1 and 8, 2012. Soil samples from AOCs 1, 5, and 13 located inside the

buildings were collected using direct push methods. AMEC subcontracted Gregg to collect soil samples using their portable Ramset limited access, direct push equipment. Sampling locations were placed inside the pits/sumps in the vicinity of previous sampling locations where elevated concentrations of COPCs were detected. Soil cores were collected in a 4-foot-long sampler fitted with an acetate liner. Soil samples for chemical analysis were collected from the core at depths of 1, 5, 10, 15 and 20 feet (or at refusal) and submitted to MTA. The soil samples collected at depths of 1, 5, and 10 feet were analyzed for the following:

- Title 22 metals (metals) using U.S. EPA Method 6010B/7471A; and
- hexavalent chromium using U.S. EPA Method 7196A.

Soil samples from greater depths were archived pending results from the shallower soil samples. Several archived soil samples were analyzed, as appropriate.

Soil sampling at/around AOCs 7 and 9 and in the southeast parking lot was conducted using hand auger methods. Sample locations in AOC 7 were selected in the vicinity of previous locations AC07-01 and AC07-02 where elevated concentrations of metals were detected. Sample locations around AOC 9 were selected inside the concrete drainage swale downstream of the AOC 9 pit. Sample locations in the southeast parking lot were selected where stained or deteriorated asphalt was observed. Soil samples were collected from native soil beneath the asphalt/gravel base. Additional soil samples were collected from depths of five feet at the sample locations in AOC 7. The soil samples were analyzed for the following:

- Metals using U.S. EPA Method 6010B/7471A; and
- hexavalent chromium using U.S. EPA Method 7196A.

Three soil samples (including one duplicate) collected in the southeast parking lot were also analyzed for cyanide using U.S. EPA Method 9014. Duplicate sampling was described in the Work Plans (AMEC, 2010a and 2012). In addition, three soil samples designated BG5 through BG7 were collected from “background” locations and analyzed for arsenic by EPA Method 6010B (Section 7.1). Background samples were selected from areas of the site that appeared to be relatively undisturbed and unaffected by historical operations (AMEC, 2012).

At completion, all soil borings were backfilled with granular bentonite that was placed and hydrated in lifts. Surface cores were repaired with concrete.

June 2012 Event

Based on soil sample results from the March 2012 event and after discussion with DTSC staff, soil samples were collected from step-out locations during the June 2012 event. Elevated concentrations of metals (primarily hexavalent chromium) were detected in soil samples collected from locations in AOC 13 (Plating Line 6) and the southeast parking lot. AMEC subcontracted InterPhase to collect soil samples using their track-mounted limited access direct push equipment from two locations in the AOC 13. Interphase also collected soil samples from locations in the southeast parking lot.

All soil samples were collected using a dual-tube soil sampling system fitted with acetate liners. Two soil borings in AOC 13 (AC13-B8 and AC13-B9) were completed to depths of 36 and 40 feet below ground surface (equivalent to depths of approximately 31 and 35 feet below the base of the below-grade sump/pit). Six locations were completed to a depth of five feet in the southeast parking lots. The soil samples were transferred into 4 oz jars and submitted to MTA and CEL, as appropriate. Selected soil samples were analyzed for the following:

- metals using U.S. EPA Method 6010B/7471A;
- hexavalent chromium using U.S. EPA Method 7196A; and
- perchlorate using U.S. EPA Method 314.0.

At the request of DTSC staff, soil samples were selected from two different soil types and submitted to PTS for grain size analysis. Subsequently, soil samples were collected from AC01-B5 and AC13-B2. The laboratory report for grain size analysis is included in Appendix D. Soil boring logs for AC01-B5, AC13-B2, AC13-B8, and AC13-B9 are included as Appendix C.

At completion, all soil borings were backfilled with granular bentonite placed and hydrated in lifts. Surface cores were repaired with concrete.

5.2.4 Investigative Waste Management

The following types of IDW were managed during the process of collecting environmental samples:

- Water that had accumulated in AOCs 1, 3, and 13 and was pumped from these areas to facilitate access;
- Used personal protective equipment (PPE) and disposable sampling equipment; and

- Soil cuttings.

These are described below.

Rain Water: As described in Section 5.2.2, the water removed from AOC 13 was characterized as hazardous waste, while the water removed from AOCs 1 and 5 was characterized as non-hazardous waste. K-VAC prepared waste manifests for the pumped water for DTSC staff signature. On March 19, 2012, the water temporarily contained in both Baker tanks was pumped out and taken off site for disposal. Hazardous waste was disposed at the Siemens Water Technologies Corp of Los Angeles, California and non-hazardous water was disposed at K-Pure Waterworks, Inc. of Rancho Cucamonga, California. Copies of waste manifests are included in Appendix B.

Used PPE and disposable sampling equipment: All PPE and disposable equipment (e.g. acetate liners) were double bagged and placed in a municipal refuse dumpster. These wastes were not considered hazardous due to the limited amount of site media that adhered to this solid material.

Soil Cuttings: During the DGI, excess soil was contained in two DOT-approved 55-gallon drums. A composite soil sample was collected and submitted to CEL for VOCs, metals, and TPH analysis for waste profiling. Soil cuttings were characterized as non-hazardous. Both drums containing soil cuttings were taken off site on March 27, 2012 and disposed at Soil Safe of Adelento, California. Copies of waste manifests are included in Appendix B.

6.0 NATURE AND CONCENTRATION OF CONTAMINANTS

As noted in Section 1.0, the purpose of the DGI was to further assess the presence and distribution of COPCs at the site. The results of the DGI data collection and quality assurance (QA) and quality control (QC) evaluation are provided in the following subsections.

6.1 LABORATORY ANALYTICAL METHODS

The table below identifies the analytical methods laboratories used during this DGI.

Analytical Method	Parameters
Soil and Equipment Blank Samples	
U.S. EPA Method 6010B/7471A	metals
U.S. EPA Method 7199/7196A	hexavalent chromium
U.S. EPA Method 9014 (soil)	cyanide
U.S. EPA Method SM4500CN-E (water)	cyanide
U.S. EPA Method 6010B	arsenic
U.S. EPA Method 314.0	perchlorate

Analytical reports from CEL and MTA are provided in Appendixes E and F, respectively.

6.2 DATA GAP INVESTIGATION RESULTS FOR METALS

During this DGI, AMEC collected 153 soil samples using direct push drilling and hand auger methods. Of these, 116 soil samples (including 11 duplicate samples) were analyzed for metals, including hexavalent chromium. The soil sample results were compared to the commercial/industrial CHHSLs and the U.S. EPA Regional Screening Levels (RSLs) (U.S. EPA, 2012).

The DGI soil sample results for metals are presented in Table 2 and summarized below.

AOC 1 – Metal Plating Department: During the 2010 SSI, elevated concentrations of hexavalent chromium (120 mg/kg) and lead (570 mg/kg) were detected in sample AC01-15 collected from the soil beneath a brick-lined drainage channel in the former Metal Plating Department. During this DGI, soil samples were collected from three locations designated AC01-B1, -B2, and -B3 in the vicinity of previous sample location AC01-15, as close to the edge of the drainage channel as Ramset equipment and site conditions would allow. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium (sample AC01-B3 at 15 feet was also analyzed for metals and hexavalent chromium).

Excluding arsenic, the reported concentrations of metals in soil samples from AC01-B1, -B2, and -B3 were below their respective CHHSLs for commercial/industrial land use (Table 2). However, the concentration of hexavalent chromium in soil sample AC01-B1 at 5 feet (5.8J mg/kg) slightly exceeded its industrial soil RSL of 5.6 mg/kg. Concentrations of hexavalent chromium in soil samples AC01-B1 at 1 feet (5.4J mg/kg) and AC01-B2 at 1 feet (5.5J mg/kg) were just below its industrial soil RSL of 5.6 mg/kg (Table 2).

During this DGI, a fourth soil sample location, designated AC01-B4, was placed in the vicinity of previous sample locations AC01-17 and AC01-18, close to the edge of the drainage channel as Ramset equipment and site constrains would allow. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium. The concentration of hexavalent chromium in soil sample AC01-B4 at 1 feet (5.9J mg/kg) slightly exceeded its industrial soil RSL of 5.6 mg/kg. The concentrations of hexavalent chromium in deeper soil samples AC01-B4 at 5 and 10 feet (3.3J and 4.9J mg/kg, respectively) were below the industrial soil RSL (Table 2). Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 1, the Metal Plating Department were below their respective industrial soil RSLs and CHHSLs for commercial/industrial land use. Arsenic concentrations did not exceed background levels (Section 7.1).

AOC 1 – Plating Line 1: During this DGI, soil samples were collected from two locations designated AC01-B5 and AC01-B6 in the former Plating Line 1 sump/pit. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium. Concentrations of hexavalent chromium in soil samples AC01-B5 at 5 and 10 feet (7.7J and 7.0J mg/kg, respectively) and AC01-B6 at 1 feet (6.7J mg/kg) exceeded its industrial soil RSL of 5.6 mg/kg (Table 2). The concentrations of hexavalent chromium in the other soil samples from AC01-B5 and AC01-B6 were below the industrial soil RSL. Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 1, Plating Line 1 were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use. Arsenic concentrations did not exceed background levels (Section 7.1).

AOC 5 – Plating Line 3: During the 2010 SSI, elevated concentrations of hexavalent chromium (160J mg/kg), lead (420 mg/kg), and nickel (25,000 mg/kg) were detected in soil sample AC05-04 collected from the bottom of a shallow sump inside AOC 5, Plating Line 3 pit/sump area. During this DGI, soil samples were collected from three locations designated AC05-B4, -B5, and -B6 located inside the Plating Line 3 pit/sump area. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium (samples AC05-B5 at 15 and 20 feet were also analyzed for metals and hexavalent chromium).

Hexavalent chromium was detected in all soil samples from Plating Line 3 at concentrations ranging between 5.4J and 380 mg/kg. Reported concentrations of hexavalent chromium in all but one soil sample exceeded the industrial soil RSL (5.6 mg/kg) and concentrations in four samples exceeded the CHHSL (37 mg/kg) for commercial/industrial use (Table 2). Lead was also detected in soil sample AC05-B6-1.0 at a concentration of 390 mg/kg, which exceeds its CHHSL of 320 mg/kg for commercial/industrial use (Table 2). Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 5, Plating Line 3 were below their

respective industrial soil RSLs and CHHSLs for commercial/industrial use. Arsenic concentrations did not exceed background levels (Section 7.1).

AOC 5 – Plating Line 5: During the 2010 SSI, hexavalent chromium was detected in soil sample AC05-07-0.5 at a concentration of 6.5J, which exceeds the industrial soil RSL of 5.6 mg/kg (Table 2). During this DGI, soil samples were collected from three locations designated AC05-B1, -B2, and -B3 located inside the Plating Line 5 pit/sump area. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium.

Hexavalent chromium was detected in all soil samples from Plating Line 5 at concentrations ranging between 1.9J and 6.7J mg/kg (Table 2). Reported concentrations of hexavalent chromium in five soil samples (including a duplicate sample) exceeded its industrial soil RSL (concentrations did not exceeded the CHHSL for commercial/industrial use). Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 5, Plating Line 5 were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use. Arsenic concentrations did not exceed background levels (Section 7.1).

AOC 7: During the 2010 SSI, elevated concentrations of arsenic (130 mg/kg) and hexavalent chromium (89 mg/kg) were detected in soil sample AC07-02-0.5. In addition, the reported concentration of arsenic (6.5 mg/kg) in soil sample AC07-01-0.5 was thought to have exceeded background levels. During this DGI, soil samples were collected from four locations designated AC07-03, -04, -05, and -06 placed in the vicinity of previous sample locations AC07-01 and AC07-02. Soil samples were collected from depths of 1 and 5 feet and analyzed for metals and hexavalent chromium.

Hexavalent chromium was detected in all DGI soil samples from AOC 7 at concentrations ranging between 4.0J and 5.8J mg/kg (Table 2). Only one soil sample, AC07-05-1.0, reported hexavalent chromium at a concentration of 5.8J mg/kg that slightly exceeds its industrial soil RSL of 5.6 mg/kg. Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 7 were below their respective industrial soil RSLs and CHHSLs for commercial/industrial land use.

Arsenic concentrations were compared to background levels to identify a site-specific, upper limit background level, and determine which on-site concentrations exceed this limit. Based on the results presented in Section 7.1, 10 mg/kg is considered an upper limit background level for arsenic in soil from the site. The concentration of arsenic (130 mg/kg) in soil sample AC07-02-0.5 exceeds background, while the concentration of arsenic (6.5 mg/kg) in soil sample AC07-01-0.5 did not exceed background levels (Section 7.1). All other arsenic concentrations in AOC 7 did not exceed background levels.

AOC 9: The DGI Work Plan (AMEC, 2012) recommended collecting soil samples from inside the former Spent Chemical Holding Tank pit. However, as noted in Section 5.1, accumulated water could not be removed from the pit to allow DGI sampling to proceed. Instead, soil samples were collected along the nearby drainage swale. During the 2010 SSI, slightly elevated concentrations of chromium, copper, lead, and nickel were detected in the soil sample AC09-03 collected from the drainage swale just north of AOC 9 and outside the Plastic Plating Room (Figure 3). Arsenic was detected in sample AC09-03 at a concentration of 13 mg/kg. DGI soil samples designated AC09-04, -05, -06, -08, and -09 were collected from five locations along the drainage swale. DGI sample location AC09-07 was placed in an area where flowing surface water appears to accumulate. Soil samples were collected from first native soil beneath the drainage swale or asphalt (approximately 0.5 feet) and analyzed for metals and hexavalent chromium.

Hexavalent chromium was detected in all soil samples from the AOC 9 area at concentrations ranging between 3.8J and 6.3J mg/kg (Table 2). Only one sample, AC09-08-0.5, reported hexavalent chromium at a concentration (6.3J mg/kg) that exceeds the industrial soil RSL of 5.6 mg/kg (Table 2). Excluding arsenic, the reported concentrations of the other metals in soil samples from the AOC 9 area were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use. The concentration of arsenic (13 mg/kg) in soil sample AC09-03 exceeds background, while the concentrations of arsenic in all other soil samples from AOC 9 did not exceed background levels (Section 7.1).

AOC 13 – Plating Line 6: During the 2010 SSI, elevated concentrations of hexavalent chromium (up to 1,600 mg/kg) and/or lead (480 mg/kg) were detected in soil samples collected from borings AC13-02 and AC13-06 located inside AOC 13, Plating Line 6. During the March 2012 event, soil samples were collected from five locations designated AC13-B1, -B2, -B3, -B4 and –B5 inside the sump/pit area. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium (sample AC13-B1 at 13 feet was also analyzed for metal and hexavalent chromium).

Hexavalent chromium was detected in all soil samples from AOC 13, Plating Line 6 at concentrations ranging between 2.7J and 1,400 mg/kg (Table 2). Reported concentrations of hexavalent chromium in 13 of the 17 soil sample exceeded the industrial soil RSL of 5.6 mg/kg and concentrations in eight samples exceed the CHHSL (37 mg/kg) for commercial/industrial use. Excluding arsenic, the reported concentrations of the other metals in soil samples from Plating Line 6 were below their respective industrial soil RSLs and CHHSLs for commercial/ industrial use. The concentrations of arsenic (16 and 12 mg/kg) in soil sample AC13-B3-1.0 and its duplicate exceed background, while the concentrations of arsenic in all other soil samples from AOC 13, Plating Line 6 did not exceed background levels (Section 7.1).

Subsequently, two soil borings designated AC13-08 and AC13-09 were drilled and sampled during the June 2012 event as “step-outs” to evaluate metals concentrations outside the Plating Line 6 sump area. Access limitations restricted locations of soil borings to the east side of the pit/sump. Soil samples collected from depths of 4, 6, 10, 15, and 20 feet were analyzed for metals and hexavalent chromium. Hexavalent chromium was detected in all eleven step out soil samples at concentrations ranging between 0.46J and 5.7J mg/kg. The concentration of hexavalent chromium in soil sample AC13-08 at 6 feet (5.7J mg/kg) was slightly higher than the industrial soil RSL of 5.6 mg/kg. The concentration of hexavalent chromium in the other soil samples from AC13-08 and AC13-09 were below the RSL. Likewise, the reported concentrations of the other metals were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use, or background level (arsenic).

AOC 13 – Plating Line 7: During this DGI, soil samples were collected from two locations designated AC13-06 and AC13-07 in the AOC 13, Plating Line 7 sump/pit area. Soil samples collected from depths of 1, 5, and 10 feet were analyzed for metals and hexavalent chromium. Concentrations of hexavalent chromium in soil samples AC13-06 at 1 and 5 feet (9.2J and 6.9J mg/kg, respectively) and AC13-07 at 1 and 5 feet (6.0J and 7.1J mg/kg, respectively) exceeded the industrial soil RSL of 5.6 mg/kg (Table 2). The concentration of hexavalent chromium in the 10-foot depth samples from AC13-06 and AC13-07 were below the RSL. Concentrations of hexavalent chromium did not exceed CHHSLs. Excluding arsenic, the reported concentrations of the other metals in soil samples from AOC 13, Plating Line 7 were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use. Arsenic concentrations did not exceed background levels (Section 7.1).

Southeast Parking Lot: During the March 2012 DGI event, shallow soil samples were collected from nine locations designated SW1 through SW9 in the southeast parking lot and analyzed for metals and hexavalent chromium. At SW4 and SW8, elevated concentrations of chromium, hexavalent chromium, copper, lead, nickel and zinc were detected. Concentrations of hexavalent chromium in soil samples SW4 and SW8 at 0.5 feet (400J and 110J mg/kg, respectively) exceeded the CHHSL (37 mg/kg) for commercial/industrial use (Table 2). Concentrations of lead in soil samples SW4 and SW8 at 0.5 feet (3,700J and 1,900J mg/kg, respectively) exceeded the CHHSL (320 mg/kg) for commercial/industrial use (Table 2).

Additional soil samples were collected during the June 2012 event from greater depths at SW4 and SW8, and step-out locations. Concentrations of hexavalent chromium in soil samples from SW4 at depths of 2 and 5 feet (6.1J and 6.2J mg/kg, respectively) slightly exceeded the industrial soil RSL of 5.6 mg/kg (Table 2). The concentrations of hexavalent chromium and lead in soil samples SW8 and a duplicate sample (SWA1) from a depth of 2 feet (up to 95J and 3,300J mg/kg, respectively) exceeded their respective CHHSLs for commercial/industrial

use (Table 2). The concentrations of hexavalent chromium and lead in soil sample SW8 from a depth of 5 feet were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use.

Hexavalent chromium was detected in the step out soil samples designated SW4a and SW4b at a depth of 0.5 feet at concentrations of 7.6J and 3.7J mg/kg, respectively and SW8a and SW8b at a depth of 0.5 feet at concentrations of 4.9J and 5.8J mg/kg, respectively. Concentrations of hexavalent chromium in soil samples SW4a (7.6J mg/kg) and SW8b (5.8J mg/kg) slightly exceeded the industrial soil RSL of 5.6 mg/kg (Table 2). Excluding arsenic, the reported concentrations of the other metals in soil samples from the southeast parking lot were below their respective industrial soil RSLs and CHHSLs for commercial/industrial use. Arsenic concentrations did not exceed background levels (Section 7.1).

6.3 DATA GAP INVESTIGATION RESULTS FOR CYANIDE AND PERCHLORATE

During this DGI, three soil samples (including one duplicate) were analyzed for cyanide using U.S. EPA Method 9014. Results for cyanide and perchlorate are summarized in Tables 3 and 4, respectively. Cyanide was detected in one sample, SW7 from the southeast parking lot, at a concentration of 0.72 mg/kg, which is well below the industrial soil RSL of 20,000 mg/kg. Six soil samples were analyzed for perchlorate using U.S. EPA Method 314.0. Perchlorate was not detected in any of these soil samples.

6.4 QUALITY ASSURANCE/QUALITY CONTROL

Throughout the DGI, AMEC followed QA/QC procedures described in the Work Plan (AMEC, 2012) to demonstrate the proper collection of environmental samples and laboratory measurements of chemical concentrations. Field quality control samples were collected and laboratory quality assurance measures were used to validate sample analysis, handling, and custody procedures, and to identify possible discrepancies within the data set. The results of the QA/QC evaluation are described in Appendix G. Based on our review, analytical results for soil samples were qualified as appropriate. The data generated during the data gap investigation are acceptable and suitable for decision-making purposes.

7.0 SCREENING LEVEL EVALUATION

This section provides comparison of soil sample results to prescriptive regulatory screening levels, as appropriate.

7.1 EVALUATION OF ARSENIC

As described in Sections 4.0 and 6.2 above, soil sample results for metals have been compared to risk-based screening levels for direct exposure concerns, specifically industrial soil RSLs and CHHSLs for commercial/industrial use, to identify potential data gaps and areas

of potential impact. However, risk-based screening for arsenic is problematic because naturally occurring “background” levels in southern California typically exceed CHHSLs and RSLs. As described below, a tiered testing approach was followed to evaluate potential on-site releases versus background concentrations of arsenic, identify a site-specific upper limit background level, and determine which on-site concentrations exceed this limit.

The prescribed testing of on-site versus background concentrations of arsenic consisted of a simple test of comparisons (comparing the maximum detected concentrations between the site and background data sets) as well as population-based, statistical methods to determine whether or not the measurements from the site data set (from the 2010 SSI investigation and this DGI, from 0 to 10 feet below ground surface [bgs]) tended to be higher (or lower) than those from the corresponding background data set. The background data set consisted of seven shallow soil samples (0 to 2 feet bgs) collected outside the site fence. Four of the samples, designated BG1 through BG4, were collected during the 2010 SSI. The three other samples, designated BG5 through BG7, were collected as part of this DGI (Section 5.2.3). Sample locations for the 2010 background samples are shown on Figure 4 of the 2010 SSI; sample locations for the 2012 background samples are shown on Figure 3. Sample results for the site and background data sets are presented in Appendix H, Tables H-1 and H-2, respectively. Prior to comparing the data sets, duplicate sample results from the on-site data set were consolidated by selecting the highest detected concentration or the lowest available reporting limit (if both results were non-detect) for primary/duplicate sample pairs to avoid over-representing a particular sample location and depth. As presented in Table H-2, arsenic was detected in all seven background samples at concentrations ranging from 3.0 to 6.2 mg/kg.

The population-based tests employed were nonparametric (i.e., not sensitive to the underlying distribution of data) and, therefore, could be used with censored data (i.e., non-detect values). Population-based test selection was dependent on the frequency of detection and the number of detection limits within each data set according to U.S. EPA guidance (2010). Specifically, the Wilcoxon-Mann-Whitney test is recommended for data sets with consistent detection limits and a frequency of detection of at least 60 percent in both data sets (U.S. EPA, 2010). Alternatively, the Gehan test is recommended for data sets with multiple detection limits or less than 60 percent frequency of detection in either data set (U.S. EPA, 2010). From summary statistics generated for both data sets, both the site and background arsenic data sets exhibit a frequency of detection of at least 60 percent, but multiple detection limits are present in the site data set (Appendix H, Table H-3). Thus, the Gehan test was selected to test for differences between the site and background population distributions. If the Gehan test did not conclude a significant difference between the site and background population distributions, the quantile test was then employed for detecting cases of high-value

measurements present in the upper quantile (right-hand tail) of the distributions (U.S. EPA, 2010). One-sided statistical tests were used, employing a Type I error rate of 0.05 (5 percent).

Finally, in addition to the comparative statistical tests, graphical representations of the site and background data were also used as an additional means to identify the presence of multiple populations (indicated by a change in slope of the line representing the data) and possible outliers (soil samples with significantly higher concentrations than most of the data).

In summary, the tiered testing was conducted as follows, consistent with DTSC and U.S. EPA guidance (DTSC, 1997; U.S. EPA, 2010):

- 1st Tier – The maximum detected concentration of arsenic in site soil was compared to the corresponding maximum detected concentration in background soil (**test of comparisons**). If the maximum site concentration was less than the maximum background concentration, site levels of arsenic were considered consistent with background levels. If the maximum site concentration exceeded background, arsenic was subjected to 2nd tier population-based testing and graphical analysis.

- 2nd Tier – The population-based **Gehan test** was performed for arsenic with the following null hypothesis (H_0):

  H_0: the median concentration for the site is less than or equal to the median concentration in the background population

- 3rd Tier – If the Gehan test did not reject the H_0 (if it was concluded that the median concentrations of the two data sets were not significantly different), the **quantile test** was performed to confirm the results.

- Graphical Analysis – Arsenic was evaluated graphically using cumulative probability plots. Gaps or inflection points identified from probability plots were considered indicative of potential different populations for background and site-related concentrations.

All statistical tests and graphical methods were conducted using U.S. EPA's ProUCL software (U.S. EPA, 2011). The results of the population-based statistical testing are presented as ProUCL output in Appendix H, Attachment H-1 and are summarized in Appendix H, Table H-3. Probability plots are presented in Figures H-1 and H-2.

Using the prescribed multi-tiered approach, arsenic was not eliminated as a COPC in the 1st tier – the maximum detected concentration in site soil, 130 mg/kg, is greater than the

maximum detected concentration in background soil, 6.2 mg/kg. Based on the results of the Gehan test, site concentrations of arsenic were not statistically distinguishable from background concentrations, but concentrations at the right-hand tail of the site data set were determined to exceed concentrations at the right-hand tail of the background data sets based on the quantile test. The results of the population-based statistical testing were corroborated by inflection points in probability plots of the combined site and background data. As presented in a normal probability plot of all detected values from the combined site and background data set (Figure H-1), the majority of the data do not appear to largely deviate from background; the data set approximates a straight line until approximately 10 mg/kg, where the slope of the line shifts, influenced largely by the maximum detected site concentration, 130 mg/kg. Excluding this value as an outlier, the combined site and background data set more closely approximates a lognormal distribution, but the inflection point is still distinguishable at 10 mg/kg (Figure H-2). This 10 mg/kg inflection point may therefore be considered an upper limit background level for arsenic in soil from the site, drawn from a more robust data set than the background data set alone. Arsenic is retained as a COPC for the site, but only three concentrations on site exceed the upper limit background concentration of 10 mg/kg: 13 mg/kg (sample ID AC09-03), 16 mg/kg (sample ID AC13-B3-1.0; arsenic in the corresponding duplicate sample also exceeded 10 mg/kg), and 130 mg/kg (sample ID AC07-02-0.5).

7.2 EVALUATION OF HEXAVALENT CHROMIUM

As noted in Section 4.0, soil sample results from the 2010 SSI were compared to OEHHA's CHHSLs, which were originally published in 2005 (OEHHA, 2005) and updated for a few chemicals in 2010 (OEHHA, 2010). The CHHSL for hexavalent chromium in soil for residential (unrestricted) use is 17 mg/kg while that for commercial/industrial use is 37 mg/kg. Since these CHHSL were developed in 2005, however, California has re-evaluated the potential risk posed by hexavalent chromium and in 2011, OEHHA published a public health goal (PHG) for hexavalent chromium in drinking water. The PHG was based on OEHHA's newly developed toxicity criterion for potential cancer risk related to ingestion of hexavalent chromium.

OEHHA is in the process of updating their Toxicity Criteria Database with the toxicity criterion for ingestion of hexavalent chromium used to develop the PHG (personal communication with David Siegel, OEHHA, August 20, 2012). In the interim, the U.S. EPA's industrial soil RSL of 5.6 mg/kg incorporates a toxicity criterion published by the New Jersey Department of Environmental Protection (NJDEP) for potential cancer risk related to ingestion of hexavalent chromium. The NJDEP toxicity criterion is similar to the criterion developed by OEHHA for the PHG. Thus, the industrial soil RSL of 5.6 mg/kg for hexavalent chromium is a useful screening level for comparison to hexavalent chromium concentrations in soil based on pending regulatory guidance from OEHHA. The SSI/DGI investigation results presented in Section 8.0

use both the current commercial/industrial CHHSL and the industrial soil RSL for hexavalent chromium to identify areas of impact at the site.

7.3 EVALUATION OF OTHER METALS

In addition to hexavalent chromium, a few other metals have been detected in soil samples at concentrations exceeding their respective industrial soil RSL and/or CHHSL for commercial/industrial use. These have included:

- Lead in soil samples AC01-15-0.5, AC05-04-0.5, AC05-B6-1.0, AC13-06-0.5, SW4-0.5, SW8-0.5, and SW8-2 (390 to 3,700J mg/kg); and,
- Nickel in soil sample AC05-04-0.5 (25,000 mg/kg).

In addition, as noted in Section 7.1 above, arsenic has been detected in three soil samples at concentrations exceeding the upper limit background level established for arsenic in soil at the site (10 mg/kg): samples AC07-02-0.5, AC09-03, and AC13-B3-1.0 (13 to 130 mg/kg). In all but one instance noted above, the soil samples with elevated concentrations of lead, nickel, and/or arsenic were also accompanied by elevated concentrations of hexavalent chromium exceeding its CHHSL for commercial/industrial use. Thus, any future remedial effort focused on hexavalent chromium impact would also address these other metals. Therefore, hexavalent chromium is considered the primary COPC metal in soil and should be the focus of future remedial efforts, as appropriate.

The one exception noted above was sample AC09-03-0.5 where arsenic was detected at a concentration of 13 mg/kg (slightly exceeding its upper limit background level of 10 mg/kg for arsenic in soil from the site) while hexavalent chromium concentration in the sample was <4.7 mg/kg (below the industrial soil RSL of 5.6 mg/kg). Sample AC09-03-0.5 was collected during the 2010 SSI beneath the drainage swale (Figure 3). The concentration of arsenic reported in all other samples collected from this drainage swale during both the 2010 SSI and 2012 DGI were below its upper limit background level of 10 mg/kg. Thus, it appears that is single detection of arsenic was isolated and additional sampling for arsenic is not necessary.

8.0 SUMMARY OF CUMULATIVE FINDINGS

The SSI and DGI were conducted in accordance with DTSC-approved Work Plans (AMEC, 2010a and 2012) to assess the presence and distribution of COPCs at the site. Results of the DGI soil sampling were summarized in Section 6.2 and screening level evaluation of the data was summarized in Section 7.0. Results of SSI were summarized in the RI Report (AMEC, 2010b) and results of previous investigations were summarized in the RI Work Plan (AMEC,

2010a). The cumulative findings of these environmental investigations conducted at the site are summarized below.

8.1 SUMMARY OF SOIL FINDINGS

As noted in Section 7.3, hexavalent chromium is considered the primary COPC metal in soil at the site. Figure 5 summarized soil samples results for hexavalent chromium reported during the DGI, SSI, and 2006 investigation by Clayton (Clayton, 2006). Sample results were compared to the industrial soil RSL and CHHSLs (screening levels). As noted on Figure 5, elevated concentrations of hexavalent chromium exceeding screening levels were detected in the following areas:

- AOC 1. Metal Plating Department and Plating Line 1
- AOC 5. Plating Lines 3 and 5
- AOC 6. Sump Area
- AOC 7. Backyard Hazardous Waste Storage Area
- AOC 9. Aboveground Spent Chemical Holding Tanks (in downgradient drainage swale)
- AOC 13. Plating Lines 6 and 7
- AOC 15. Drum Wash Area
- AOC 16. Wastewater Treatment Area
- Southeast Parking Lot

Table 5 provides the cumulative results for chromium, hexavalent chromium, and other metals in soil samples that exceed screening levels. The cumulative findings for the above-listed areas are summarized below. Figure 9 identified the overall RI status for metals in soil.

AOC 1 – Metal Plating Department: To facilitate DGI sampling, accumulated rain water was removed from AOC 1. This water, along with some water removed from AOC 5, was contained in a Baker Tank. While pumping water from the Metal Plating Department, it became apparent that this area is connected to Plating Line 1 via underground piping; however, this connecting underground piping was not located. A below-grade drainage channel in the Metal Plating Department appears to be the lowest point in this portion of the

site where rain water first accumulates (Figure 6). A wastewater profile sample collected from the Baker Tank reported hexavalent chromium at a concentration of 1,200 µg/L.

As part of the SSI, AMEC collected 16 soil samples for hexavalent chromium analysis from locations placed throughout the Metal Plating Department (soil samples collected by Clayton were not analyzed for hexavalent chromium) (Figure 6). Elevated concentrations of hexavalent chromium exceeding screening levels were detected in two of those soil samples; AC01-15-0.5 (120J mg/kg) and AC01-17-0.5 (7.1J mg/kg). Both sample locations are located within or near the drainage channel (Figure 6). As part of the DGI, four additional soil sample locations were placed in the Metal Plating Department; three near previous sample location AC01-15-0.5 and one near previous sample location AC01-17-0.5. The concentrations of hexavalent chromium in soil sample AC01-B1 at 5 feet (5.8J mg/kg) and AC01-B4 at 1 feet (5.9J mg/kg) exceeded the industrial soil RSL of 5.6 mg/kg. Concentrations of hexavalent chromium in deeper soil samples collected from both locations were below the RSL.

Based on the cumulative results of environmental investigations conducted in AOC 1, Metal Plating Department, areas in and around the below-grade drainage channel have been impacted by hexavalent chromium at concentrations exceeding screening levels. Figure 6 shows the soil sample locations and locations of hexavalent chromium impacted soil in the Metal Plating Department. Based on these cumulative results, the vertical and lateral extent of hexavalent chromium impact to soil in the Metal Plating Department has been defined sufficiently for purposes of the RI.

AOC 1 –Plating Line 1: In 2006, Clayton collected two soil samples from depths of 12 and 13 feet inside the AOC 1, Plating Line 1 pit/sump area (Figure 6). Hexavalent chromium was detected in both samples at concentrations of 20.1 and 55.6 mg/kg. As part of the SSI, AMEC collected four soil samples from depths of 0.5 feet. Hexavalent chromium results from those three samples were non-detect.

As part of the DGI, two additional soil sample locations were placed in Plating Line 1 pit/sump. Concentrations of hexavalaent chromium exceeded screening levels in 3 of the 7 soil samples analyzed from these two locations. The concentrations of hexavalent chromium in soil samples AC01-B5 at 5 and 10 feet (7.7J and 7.0J mg/kg, respectively) and AC01-B6 at 1 feet (6.7J mg/kg) exceeded its RSL of 5.6 mg/kg for commercial/industrial use (Table 5). Concentrations of hexavalent chromium in deeper soil samples from AC01-B6 were below screening levels. No deeper sample from AC01-B5 was analyzed for hexavalent chromium.

Based on the cumulative results of environmental investigations conducted in AOC 1, Plating Line 1, some portions of the pit/sump have been impacted by hexavalent chromium at concentrations exceeding screening levels. Figure 6 shows the soil sample locations and

locations with elevated concentrations of hexavalent chromium in soil. Based on these cumulative results, the vertical and lateral extent of hexavalent chromium impact to soil at Plating Line 1 has not been defined sufficiently for purposes of the RI. Impacted soil extends beyond the depth of the deepest boring placed inside the Plating Line 1 pit/sump to date.

AOC 5 – Plating Line 3: In 2006, Clayton collected a soil sample from a depth of 20 feet inside Plating Line 3 (Figure 7). Hexavalent chromium was detected in the sample at a concentration of 9.86 mg/kg (Table 5). As part of the SSI, AMEC collected three soil samples from depths of 0.5 feet and one from a depth of 5.5 feet. Hexavalent chromium was detected in one of the soil samples (AC5-04-0.5) at a concentration of 160J mg/kg. As part of the DGI, AMEC collected eleven additional soil samples from three locations placed inside Plating Line 3. Hexavalent chromium was detected at concentrations exceeded screening levels in 10 of the 11 soil samples (Table 5).

Based on the cumulative results of environmental investigations conducted in AOC 5, Plating Line 3, soil beneath nearly the entire bottom portion of the pit/sump has been impacted by hexavalent chromium at concentrations above screening levels. Figure 7 shows the soil sample locations and locations with elevated concentrations of hexavalent chromium in soil in Plating Line 3. Based on these cumulative results, the vertical extent of hexavalent chromium impact to soil at Plating Line 3 has not been well defined, as impacted soil extends beyond the depth of the deepest borings (20 feet) placed inside the Plating 3 pit/sump.

AOC 5 – Plating Line 5: In 2006, Clayton collected a soil sample from a depth of 16.5 feet inside Plating Line 5 (Figure 7). Hexavalent chromium was non-detected in that sample. As part of the SSI, AMEC collected four soil samples from depths of 0.5 feet and one from a depth of 6.0 feet. Hexavalent chromium was detected in one of the soil samples (AC5-07-0.5) at a concentration of 6.5J mg/kg. As part of the DGI, AMEC collected ten additional soil samples from three locations placed inside Plating Line 5. Hexavalent chromium was detected at concentrations that exceeded the industrial soil RSL of 5.6 mg/kg in 5 of the 10 soil samples (Table 5).

Based on the cumulative results of environmental investigations conducted in AOC 5, Plating Line 5, a portion of the pit/sump bottom has been impacted by hexavalent chromium. Figure 7 shows the soil sample locations and locations of hexavalent chromium impacted soil inside Plating Line 5. Based on these cumulative results, the lateral extent of hexavalent chromium impact to soil at Plating Line 5 has been defined. However, the depth of impacted soil not been sufficiently defined for purposes of the RI as impacted soil extends beyond 10 feet in sample locations AC05-B2-10.0 and AC05-B3-10.0.

AOC 6 - Sump Area: In 2006, Clayton collected a soil sample at a depth of 20 from AOC 6 located outside the northeastern side of the northern building (Figure 7). Hexavalent chromium was detected in the sample at a concentration of 11.7 mg/kg. As part of the 2010 SSI, grab water samples were collected from two clarifier/sumps located outside the northeastern side of the northern building (Figure 7). Hexavalent chromium was detected in one of the sumps at a concentration of 6.0 µg/L. AMEC also collected six soil samples from three locations at AOC 6. Hexavalent chromium was detected in 4 of the 6 soil samples at concentrations that exceeded screening levels (Table 5).

Based on the cumulative results of environmental investigations conducted in AOC 6, soils in this portion of the site have been impacted by hexavalent chromium. Figure 7 shows the soil sample locations at AOC 6. The depth of impacted soil extends beyond 20 feet in sample location CC-33-20 and 4.5 feet in AC06-02-4.5. Based on these cumulative results, the extent of hexavalent chromium impact to soil at AOC 6 has not been defined sufficiently for purposes of the RI. Additional DGI sampling was not conducted in AOC 6 because of the presence of equipment in this area of the site limits access to potential areas of impact.

AOC 7 - Backyard Hazardous Waste Storage Area: In 2006, Clayton collected a soil sample from depth of 20 feet at the Backyard Hazardous Waste Storage Area (Figure 5). Hexavalent chromium concentration was non-detect (Table 5). As part of the SSI, AMEC collected 2 soil samples from depths of 0.5 feet and one from a depth of 5.0 feet. Hexavalent chromium was detected in one of the 0.5-foot depth soil samples (AC07-02-0.5) at a concentration of 89 mg/kg. Hexavalent chromium was not detected in the 5-foot depth soil sample from AC07-02.

As part of the DGI, AMEC collected eight additional soil samples from four locations placed throughout the Backyard Hazardous Waste Storage Area (Figure 5). Samples were collected from depths of 1 and 5 feet. Hexavalent chromium was detected in 1 of the 8 soil samples (AC07-05-1) at a concentration of 5.8J mg/kg, exceeding the industrial soil RSL of 5.6 mg/kg (Table 5). Hexavalent chromium was not detected in any of the 5-foot depth soil sample.

Based on the cumulative results of environmental investigations conducted in AOC 7, a portion of the Backyard Hazardous Waste Storage Area has been impacted by hexavalent chromium. Figure 6 shows the soil sample locations and estimated area of hexavalent chromium impacted soil in AOC 7. Based on these cumulative results, the vertical and lateral extent of hexavalent chromium impact to soil in the Backyard Hazardous Waste Storage Area has been defined sufficiently for purposes of the RI.

AOC 9 - Aboveground Spent Chemical Holding Tanks: Because of limited access and water accumulation, soil samples have not been collected from inside the Aboveground Spent

Chemical Holding Tank pit. Instead, grab water samples were collected from the containment area and soil borings were placed in accessible areas west of AOC 9. SSI/DGI soil sampling beneath the drainage swale has also been considered as part of AOC 9.

In 2006, Clayton collected a soil sample from a depth of 20 feet just northeast of the Aboveground Spent Chemical Holding Tank pit area (Figure 5). Hexavalent chromium was not detected (Table 5). As part of the 2010 SSI, a grab water sample collected from the pit was analyzed for hexavalent chromium; results were non-detect. AMEC also collected a soil sample from a depth of 0.5 feet and two from a depth of 3.5 feet along the west side of the Aboveground Spent Chemical Holding Tank area. Hexavalent chromium was not detected in any of the samples (Table 5).

As part of the DGI, AMEC collected seven soil samples from locations placed along the drainage swale (Figure 5). Soil samples were collected from a depth of 0.5 feet beneath the drainage swale or in a topographically low area of rainwater collection. Hexavalent chromium was detected in 1 of the 7 soil samples (AC09-08-0.5) at a concentration of 6.3J mg/kg, exceeding the industrial soil RSL of 5.6 mg/kg (Table 5). No deeper soil sample was collected from this location.

Based on the cumulative results of environmental investigations conducted in AOC 9, a portion of the drainage swale southeast of the Aboveground Spent Chemical Holding Tank area has been impacted by hexavalent chromium. Figure 5 shows the soil sample locations and location with an elevated concentration of hexavalent chromium in soil. The extent of hexavalent chromium impact to soil around sample location AC09-08 has not been well defined. However, the cumulative results suggest that the area of impact around sample location AC09-08 likely is limited. Based on the absence of data from beneath the Aboveground Spent Chemical Holding Tank, however, this area has not been evaluated sufficiently for purposes of an RI.

AOC 13 – Plating Line 6: As part of the SSI, AMEC collected 4 soil samples from depths of 0.5 feet and one from a depth of 5.5 feet from the AOC 13, Plating Line 6 pit/sump (Figure 8). Hexavalent chromium was detected in three of the soil samples at concentrations between 1,100J and 1,600 mg/kg, which exceed screening levels (Table 5). As part of the DGI, AMEC collected seventeen additional soil samples from five locations inside the pit/sump. Hexavalent chromium was detected in 13 of the 17 soil samples at concentrations exceeding screening levels (Table 5). Subsequently, AMEC collected eleven additional soil samples from two locations outside the sump/pit. Hexavalent chromium was detected in one soil sample (AC13-B8-6.0) at a concentration of 5.7J, which exceeds the industrial soil RSL of 5.6 mg/kg (Table 5). The 6-foot depth sample is just beneath the bottom of the below-grade pit/sump.

Based on the cumulative results of environmental investigations conducted in AOC 13, Plating Line 6, nearly the entire bottom portion of the pit/sump has been impacted by hexavalent chromium. Figure 8 shows the soil sample locations and estimated area of hexavalent chromium impact. Based on these cumulative results, the vertical extent of hexavalent chromium impact to soil in Plating Line 6 has not been defined sufficiently for purposes of the RI. The depth of impacted soil extends beyond 13 feet in sample location AC13-B1 and beyond 10 feet in sample locations AC13-B2 and AC13-B5.

AOC 13 – Plating Line 7: In 2006, Clayton collected two soil samples from depths of 10 and 15 feet from the bottom of AOC 13, Plating Line 7 (Figure 8). Hexavalent chromium was not detected in either sample. As part of the SSI, AMEC collected 2 soil samples from depths of 0.5 feet from the bottom of the pit/sump. Hexavalent chromium was not detected in either sample (Table 5). As part of the DGI, AMEC collected seven additional soil samples from two locations inside the pit/sump. Hexavalent chromium was detected in 4 of the 7 soil samples at concentrations that exceeded the industrial soil RSL of 5.6 mg/kg (Table 5). The concentrations of hexavalent chromium in the deepest depth samples from borings AC13-06 and AC13-07 were below screening levels.

Based on the cumulative results of environmental investigations conducted in AOC 13, Plating Line 7, a portion of the pit/sump has been impacted by hexavalent chromium. Figure 8 shows the soil sample locations and estimated area of hexavalent chromium impacted soil inside Plating Line 7. Based on these cumulative results, the extent of hexavalent chromium impact to soil in Plating Line 7 has been defined sufficiently for purposes of the RI and the area of impact appears to be limited to the northern drainage channel (Figure 8). The concentrations of hexavalent chromium in the deepest samples (10 feet) from borings AC13-06 and AC13-07 were below screening levels (Table 5).

AOC 15 – Drum Wash Area: In 2006, Clayton collected a soil sample from depth of 15 feet in AOC 15 (Figure 6). Hexavalent chromium was not detected (Table 5). As part of the SSI, AMEC collected two soil samples from a depth of 0.5 feet and two from depths of 2.5 and 4.5 feet. Hexavalent chromium was detected in 1 of the 4 soil samples (AC15-02-0.5) at a concentration of 7.4 mg/kg, which exceeds the industrial soil RSL of 5.6 mg/kg (Table 5). The concentration of hexavalent chromium in the deeper sample (2.5 feet) from boring AC15-02 was below screening levels (Table 5).

Based on the cumulative results of environmental investigations conducted in AOC 15, a portion of this area appears to have been impacted by hexavalent chromium. Figure 6 shows the soil sample locations and location with an elevated concentration of hexavalent chromium in soil. The extent of hexavalent chromium impact to soil at sample location AC15-02 has not

been well defined. These cumulative results suggest, however, that the area of impact around sample location AC15-02 likely is limited.

AOC 16 – Wastewater Treatment Area: In 2006, Clayton collected a soil sample from a depth of 9 feet below the bottom on the WWTA basement (Figure 5). Hexavalent chromium was detected in the sample at a concentration of 15.9 mg/kg, which exceeds the industrial soil RSL of 5.6 mg/kg (Table 5). As part of the SSI, AMEC collected 2 soil samples from depths of 0.5 and 2.5 feet in the WWTA basement. Hexavalent chromium was not detected in either sample. AMEC also collected two grab water samples of accumulated rainwater. Hexavalent chromium was detected in both samples, at concentrations of 1,500 and 1,600 µg/L. Soil sampling was proposed to be conducted in AOC 16 as part of the DGI. However, because of limited access and water accumulation, additional soil samples could not be collected.

Based on the limited results of environmental investigations conducted in AOC 16, it appears that this area may have been impacted by hexavalent chromium. Figure 5 shows the previous soil sample locations. Additional sampling is required to evaluate the occurrence and distribution of hexavalent chromium impacted soil in this area.

Southeast Parking Lot: As part of the DGI, AMEC collected twenty soil samples from fifteen locations in the southeast parking lot beneath areas of stained asphalt (Figure 5). Hexavalent chromium was detected in soil samples SW4 and SW8 from depths of 0.5 feet at concentrations exceeding the CHHSL (37 mg/kg) for commercial/industrial use (Table 5). Concentrations of hexavalent chromium in soil samples SW4 at depth of 2 and 5 feet (6.1J and 6.2J mg/kg, respectively) slightly exceeded the industrial soil RSL of 5.6 mg/kg (Table 5), while the concentration of hexavalent chromium in soil sample SW8 from depth of 2 feet (up to 95J mg/kg) exceeded its CHHSL for commercial/industrial use (Table 5). The concentration of hexavalent chromium in soil sample SW8 from a depth of 5 feet was below screening levels (Table 5).

Hexavalent chromium was detected in the step out soil samples designated SW4a and SW4b at a depth of 0.5 feet at concentrations of 7.6J and 3.7J mg/kg, respectively and SW8a and SW8b at depth of 0.5 feet at concentrations of 4.9J and 5.8J mg/kg, respectively. Concentrations of hexavalent chromium in soil samples SW4a (7.6J mg/kg) and SW8b (5.8J mg/kg) slightly exceeded the industrial soil RSL of 5.6 mg/kg (Table 5).

Based on the cumulative results of environmental investigations conducted in the southeast parking lot area, subsurface soil in two areas have been impacted by hexavalent chromium at concentrations exceeding screening levels. Figure 5 shows the soil sample locations and locations with elevated concentrations of hexavalent chromium in soil. The extent of hexavalent chromium impact to soil in the southeast parking lot has not been well defined.

These cumulative results suggest, however, that the area of impact around sample locations SW4 and SW8 likely is limited.

8.2 SUMMARY OF VOC FINDINGS

During the 2010 SSI, a total of 52 soil gas samples (including purge volume test and duplicate samples) were collected from temporary probes and 18 were collected from permanent nested vapor wells. PCE was detected in all soil gas samples and TCE was detected in all but 8 samples. Soil gas sample results for PCE and TCE from temporary probes are summarized below.

- PCE was detected in all 52 soil gas samples, at concentrations ranging from 0.085J to 260 µg/L.
- TCE was detected in 44 of the 52 soil gas samples, at concentrations ranging from 0.064J to 720 µg/L.

Soil gas sample results for PCE and TCE from the permanent nested vapor wells are summarized below.

- PCE was detected in all 18 soil gas samples, at concentrations ranging from 0.99 to 970 µg/L.
- TCE was detected in all 18 soil gas samples, at concentrations ranging from1.3 to 3,000 µg/L.

Appendixes A and I include copies of soil gas sampling locations (Figure 5) and summary of soil gas sampling analytical results (Tables 5 and 6).

The highest concentrations of VOCs in soil gas were detected in nested vapor wells VW-1 and VW-3. Much lower concentrations of PCE and TCE (less than 10 µg/L) were detected in soil gas samples from nested vapor well VW-4. Based on the results from previous soil gas surveys and the SSI, two separate areas of VOC-impacted soil gas are apparent within the central parcel. The first and largest area of VOC impact is located within the Molding Department and Warehouse Building. The second relatively smaller area of VOC impact is located in the southeastern corner of the central parcel. Other apparent localized areas of VOC impacted soil gas are present at the site. Figure 6 in Appendixes A and I shows the estimated areas of significant VOC impact at the site.

Based on the cumulative results of soil gas investigations conducted at the site, portions of the site have been impacted by VOCs at concentrations exceeding their respective CHHSLs for

commercial/industrial use. Remedial efforts may be required to protect future site occupants from inhalation of VOC-impacted indoor air and also to protect groundwater resources. To facilitate VOC remedial design efforts, preliminary plans to implement a soil vapor extraction (SVE) pilot study at the site are included in Appendix I.

8.3 SUMMARY OF BUILDING MATERIAL FINDINGS

The 2010 SSI included sampling of building material at the site. The purpose was to assess the potential presence and distribution of COPCs on building material surfaces. The building material samples included concrete, brick, and wipe samples analyzed for metals and hexavalent chromium. Wipe samples were also analyzed for cyanide. Additionally, an XRF survey for metals was conducted.

Concrete and/or brick samples and wipe samples were collected, and XRF measurements were made in the following plating line sump/pits:

- AOC 1. Metal Plating Department and Plating Line 1;
- AOC 5. Plating Lines 3 and 5; and
- AOC 13. Plating Line 6

Elevated concentrations of chromium, hexavalent chromium, copper, cyanide, nickel, and/or zinc were detected in several concrete/brick samples (AMEC, 2010b). Elevated concentrations of chromium, hexavalent chromium, copper, lead, nickel, and arsenic were detected in several wipe samples (AMEC, 2010b). Additionally, elevated concentrations of chromium, copper, lead, nickel, arsenic, and zinc were detected in most XRF reading locations (AMEC, 2010b). The XRF cannot measure hexavalent chromium separately from total chromium.

Based on the results of the building materials investigations, the concrete surfaces and drainage channels within the former plating lines sumps/pits have been impacted by metals.

8.4 UNCERTAINTIES AND REMAINING DATA GAPS

AMEC has conducted this SSI/DGI in a professional manner in accordance with generally accepted practices, using the degree of skill and care ordinarily exercised by environmental consultants under similar circumstances. Due to physical limitations inherent to this or any environmental assessment, other areas of impact may remain undetected at the site.

Based on the SSI and DGI results, several significant remaining data gaps were identified where subsurface environmental conditions regarding the presence and distribution of COPCs at the site could not be fully evaluated. These include:

- AOC 6. Sump Area;
- AOC 9. Aboveground Spent Chemical Holding Tanks; and
- AOC 16. Wastewater Treatment Area.

Access to these areas was limited because of water accumulation and/or the presence of equipment, structures, or other features associated with former site use. Once these areas are fully accessible, further investigation would be required to more fully assess subsurface conditions at the areas and/or support potential future remedial efforts at the site.

9.0 RECOMMENDATIONS

The results the DTSC-funded RI indicate that hexavalent chromium concentrations detected in several areas of the site subject to SSI and DGI sampling and described in this report exceed the industrial soil RSL or commercial/industrial CHHSL for hexavalent chromium. Hexavalent chromium is the primary chemical of concern (COC) in soil as the site. The AOCs and other areas of the site where soil conditions exceed these commercial/industrial screening levels include:

- AOC 1. Metal Plating Area and Plating Line 1;
- AOC 5. Plastic Plating Room (Plating Lines 3 and 5);
- AOC 6. Sump Area (sump area outside Plastic Plating Room; these features were also reported as clarifiers);
- AOC 7. Backyard Hazardous Waste Storage Area;
- AOC 9. Aboveground Spent Chemical Holding Tanks (drainage swale southeast of AOC 9);
- AOC 13. Plastic Plating Department (Plating Lines 6 and 7);
- AOC 15. Drum Wash Area; and
- AOC 16. Wastewater Treatment Area

- Southeast Parking Lot

Similarly, concentrations of certain VOCs in soil gas beneath portions of the site exceed commercial/industrial screening levels. VOCs are the primary COC in soil gas at the site. The areas where soil gas conditions exceed screening levels include:

- Molding Department and Warehouse Building; and
- Southeast Portion of Central Parcel.

Figures showing these areas of soil gas impact are included in Appendixes A and I.

Concentrations of secondary COPCs (cyanide, SVOCs, pH, TPH, and perchlorate) in soil do not appear to pose risks to human health under current site conditions or reasonably anticipated commercial/industrial re-use scenarios and thus should no longer be considered COPCs at the site.

Based on the results of the DTSC-funded RI comprising the SSI and DGI sampling and evaluations described in this report, no further action is recommended for the following areas:

- AOC 2. Paint Shop Room
- AOC 3. Metal Parts Storage Room (previous location of degreaser)
- AOC 4. Alleyway (north side of northern building)
- AOC 8. Metal Stripping Room (southwest corner of Maintenance building)
- AOC 10. Paint Department (eastern parcel)
- AOC 11. Storage Shed (eastern parcel)
- AOC 12. Mold Shop Room (eastern parcel)
- AOC 14. Underground Storage Tanks Area (in area known as the courtyard)

Figure 9 identifies the RI investigation status for metals in soil at the site. The status designations include no further action, inaccessible data gaps, areas delineated sufficiently for purposes of the RI, and areas not delineated. In general, the areas not delineated include Plating Lines 1, 3, 5 and 6 where depth of impacted soil extends beyond the deepest sampling depths.

Based on the cumulative findings presented herein and our understanding that the site likely will remain in commercial or industrial use, we recommend consideration of the additional actions listed below. (Note, the sequence of steps may differ from that listed here and some steps may not be necessary or may be modified based on site re-use plans or results from previous steps.)

- Collect additional data in the primary data gap areas listed in Section 8.4 to assess the presence and concentrations of COPCs in soil in these areas not yet sampled. Collection of these data will require removal of remaining equipment and/or removal of accumulated water from some areas.

- Reduce the mass and concentrations of VOCs present in soil and soil vapor beneath portions of the central parcels through implementation of an SVE pilot test. The results of the pilot test can be used to develop design and operational parameters for additional SVE actions, if necessary, to further reduce VOC concentrations in soil and soil vapor in these areas or address VOC concentrations in soil or soil vapor beneath other portions of the site.

- Properly destroy damaged groundwater monitoring and production wells and secure and maintain other existing wells for future use.

- Assess building materials, equipment, fixtures, piping, sumps, debris, and other materials or features remaining on site from previous operations. Additional assessments should focus on underground tunnels and piping used to transport plating chemicals and wastes. The objectives and scope for this assessment should be based on plans for future use or demolition of the facility. Based on the results of this assessment, identify and implement removal, disposal, closure, recycling, or management steps to support site restoration, re-use, or demolition.

- Develop site-specific cleanup goals for COCs in soil and soil gas. These cleanup goals should account for protection of human and ecological receptors under expected future site use conditions and of groundwater quality.

- Compare site data with the site-specific cleanup goals to identify areas requiring mitigation to support expected future site use or protection of groundwater quality.

- Conduct additional assessment where necessary to refine the lateral and vertical extent of COCs at concentrations exceeding cleanup goals in soil or soil gas and to support development, evaluation, selection, design, and implementation of remedial measures.

- Identify and select remedial measures as appropriate based on site use and protection of groundwater. Likely potential mitigation measures for soil or soil vapor may include:
    - Continuation and/or expansion of SVE (currently proposed as a pilot test) to address areas with VOCs exceeding cleanup goals in soil or soil gas
    - Excavation and off-site disposal of metals-impacted soil where present and reasonably accessible in the shallow subsurface
    - In-place closure and capping of metals-impacted soils in areas not readily accessible for excavation
    - Incorporation of vapor intrusion mitigation measures into new construction or re-use of existing buildings, if necessary prior to, during, or following implementation of SVE.
    - Establishment of administrative controls (land use restrictions), if necessary.

Although no further action is recommended for AOC 14, the UST Area, future site re-use scenarios should take into consideration that many of the USTs in the courtyard were closed in place, some elevated concentrations of TPH-d were detected in shallow soil samples, and therefore soil containing TPH-d likely remains present in portions of this area. Likewise, an area of TPH/VOC impacted soil reportedly was left in place during removal of the former UST 13 dispenser. Although concentrations of TPH and VOCs detected in soil samples during the SSI were below screening levels (AMEC, 2010a), impacted soil may remain in these areas.

Other building issues that were outside of the scope of the SSI and DGI, but should be considered during future re-use considerations include: asbestos-containing building materials, lead-based paint, industrial hygiene, health and safety; indoor air quality (such as vapor intrusion), roof materials, and biologic agents and mold. Future remedial efforts should consider appropriate management of impacted building materials.

10.0 REFERENCES

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TABLES

TABLE 1

DESCRIPTION OF SOIL SAMPLES COLLECTED DURING DATA GAP INVESTIGATION

Crown City Plating Company
El Monte, California

Area Designation	Location	Boring ID	Sample ID	Sample Date	Sample Depth (feet[1])	Sampling Method	Rationale	Remark
AOC 1	Metal Plating Department	AC01-B1	AC01-B1-1.0	03/01/12	1	HA	Elevated concentrations of COPCs were detected in AC01-15 during SSI.	Refusal at 18.5 feet
			AC01-B1-5.0	03/01/12	5	DP		
			AC01-B1-10.0	03/01/12	10	DP		
			AC01-B1-15.0	03/01/12	15	DP		
			AC01-B1-18.5	03/01/12	18.5	DP		
		AC01-B2	AC01-B2-1.0	03/01/12	1	HA		Refusal at 15.5 feet
			AC01-B2-5.0	03/01/12	5	DP		
			AC01a-B1-5.0[2]	03/01/12	5	DP		
			AC01-B2-10.0	03/01/12	10	DP		
			AC01-B2-15.0	03/01/12	15	DP		
		AC01-B3	AC01-B3-1.0	03/01/12	1	HA		Refusal at 16 feet
			AC01-B3-5.0	03/01/12	5	DP		
			AC01-B3-10.0	03/01/12	10	DP		
			AC01a-B1-10.0[3]	03/01/12	10	DP		
			AC01-B3-15.0	03/01/12	15	DP		
		AC01-B4	AC01-B4-1.0	03/01/12	1	HA		Refusal at 16 feet
			AC01-B4-5.0	03/01/12	5	DP		
			AC01-B4-10.0	03/01/12	10	DP		
			AC01-B4-15.0	03/01/12	15	DP		
	Plating Line #1	AC01-B5	AC01-B5-1.0	03/05/12	1	HA	Deeper soil samples had not been collected during previous investigations.	Refusal at 15.5 feet
			AC01-B5-5.0	03/05/12	5	DP		
			AC01-B5-10.0	03/05/12	10	DP		
			AC01-B5-15.0	03/05/12	15	DP		
		AC01-B6	AC01-B6-1.0	03/05/12	1	HA		Refusal at 15 feet.
			AC01-B6-5.0	03/05/12	5	DP		
			AC01-B6-10.0	03/05/12	10	DP		
			AC01a-B2-10.0[4]	03/05/12	10	DP		
			AC01-B6-15.0	03/05/12	15	DP		
AOC 5	Plating Line #5	AC05-B1	AC05-B1-1.0	03/02/12	1	HA	Elevated concentrations of COPCs were detected in AC05-07 during SSI.	Refusal at 18.5 feet
			AC05-B1-5.0	03/02/12	6	DP		
			AC05-B1-10.0	03/02/12	10	DP		
			AC05-B1-15.0	03/02/12	15	DP		
			AC05-B1-18.5	03/02/12	18.5	DP		
		AC05-B2	AC05-B2-1.0	03/02/12	1	HA		Refusal at 15 feet.
			AC05a-B1-1.0[5]	03/02/12	1	DP		
			AC05-B2-5.0	03/02/12	5	DP		
			AC05-B2-10.0	03/02/12	10	DP		
			AC05-B2-14.0	03/02/12	14	DP		
		AC05-B3	AC05-B3-1.0	03/02/12	1	HA		Total Depth at 20 feet.
			AC05-B3-5.0	03/02/12	5	DP		
			AC05-B3-10.0	03/02/12	10	DP		
			AC05-B3-15.0	03/02/12	15	DP		
			AC05-B3-20.0	03/02/12	20	DP		
	Plating Line #3	AC05-B4	AC05-B4-1.0	03/02/12	1	HA	Elevated concentrations of COPCs were detected in AC05-04 during SSI.	Total Depth at 20 feet.
			AC05-B4-5.0	03/02/12	5	DP		
			AC05-B4-10.0	03/02/12	10	DP		
			AC05a-B1-15.0[6]	03/02/12	15	DP		
			AC05-B4-15.0	03/02/12	15	DP		
			AC05-B4-20.0	03/02/12	20	DP		
		AC05-B5	AC05-B5-1.0	03/02/12	1	HA		Total Depth at 20 feet.
			AC05-B5-5.0	03/02/12	5	DP		
			AC05-B5-10.0	03/02/12	10	DP		
			AC05-B5-15.0	03/02/12	15	DP		
			AC05-B5-20.0	03/02/12	20	DP		
		AC05-B6	AC05-B6-1.0	03/05/12	1	HA		Total Depth at 20 feet.
			AC05-B6-5.0	03/05/12	5	DP		
			AC05-B6-10.0	03/05/12	10	DP		
			AC05-B6-15.0	03/05/12	15	DP		
			AC05-B6-20.0	03/05/12	20	DP		

TABLE 1

DESCRIPTION OF SOIL SAMPLES COLLECTED DURING DATA GAP INVESTIGATION
Crown City Plating Company
El Monte, California

Area Designation	Location	Boring ID	Sample ID	Sample Date	Sample Depth (feet[1])	Sampling Method	Rationale	Remark
AOC 7	Former Hazardous Waste Storage	AC07-03	AC07-03-1.0	03/08/12	1	HA	Elevated concentrations of COPCs were detected in AC07-01 and AC07-02 during SSI.	Hand Augered to 5 feet.
			AC07-03-5.0	03/08/12	5	HA		
		AC07-04	AC07-04-1.0	03/08/12	1	HA		Hand Augered to 5 feet.
			AC07-04-5.0	03/08/12	5	HA		
		AC07-05	AC07-05-1.0	03/08/12	1	HA		Hand Augered to 5 feet.
			AC07-05-5.0	03/08/12	5	HA		
		AC07-06	AC07-06-1.0	03/08/12	1	HA		Hand Augered to 5 feet.
			AC07-06-5.0	03/08/12	5	HA		
AOC 9	Concrete Swale	AC09-04	AC09-04	03/08/12	0.5	HA	Elevated concentrations of COPCs were detected in AC09-03 during SSI.	All locations except AC09-07 were located in the concrete lined swale. AC09-07 was located within the surface-stained area.
		AC09-05	AC09-05	03/08/12	0.5	HA		
		AC09-06	AC09-06	03/08/12	0.5	HA		
		AC09-07	AC09-07	03/08/12	0.5	HA		
			AC09a-01[7]	03/08/12	0.5	HA		
		AC09-08	AC09-08	03/08/12	0.5	HA		
		AC09-09	AC09-09	03/08/12	0.5	HA		
AOC 13	Plating Line #6	AC13-B1	AC13-B1-1.0	03/06/12	1	HA	Elevated concentrations of COPCs were detected in AC13-02 and AC13-06 during SSI.	Refusal at 13 feet.
			AC13-B1-5.0	03/06/12	5	HA		
			AC13-B1-10.0	03/06/12	10	HA		
			AC13-B1-13.0	03/06/12	13	HA		
		AC13-B2	AC13-B2-1.0	03/05/12	1	DP		Total Depth at 20 feet.
			AC13-B2-5.0	03/05/12	5	DP		
			AC13-B2-10.0	03/05/12	10	DP		
			AC13-B2-15.0	03/05/12	15	DP		
			AC13-B2-20.0	03/05/12	20	DP		
		AC13-B3	AC13-B3-1.0	03/06/12	1	HA		Refusal at 12 feet.
			AC13a-B1-1.0[8]	03/06/12	1	HA		
			AC13-B3-5.0	03/06/12	5	DP		
			AC13-B3-10.0	03/06/12	10	DP		
		AC13-B4	AC13-B4-1.0	03/05/12	1	HA		Hand Augered to 10 feet.
			AC13-B4-5.0	03/05/12	5	HA		
			AC13-B4-10.0	03/05/12	10	HA		
		AC13-B5	AC13-B5-1.0	03/05/12	1	HA		Hand Augered to 10 feet.
			AC13-B5-5.0	03/05/12	5	HA		
			AC13-B5-10.0	03/05/12	10	HA		
	Plating Line #7	AC13-B6	AC13-B6-1.0	03/06/12	1	DP		Refusal at 13.5 feet.
			AC13-B6-5.0	03/06/12	5	DP		
			AC13-B6-10.0	03/06/12	10	DP		
			AC13-B6-13.5	03/06/12	13.5	DP		
		AC13-B7	AC13-B7-1.0	03/06/12	1	DP		Refusal at 11.5 feet.
			AC13-B7-5.0	03/06/12	5	DP		
			AC13a-B1-5.0[9]	03/06/12	5	DP		
			AC13-B7-10.0	03/06/12	10	DP		
	Near West End of Plating Line #6	AC13-B8	AC13-B8-4.0	06/19/12	4	DP	Deeper soil samples had not been collected during previous investigations.	Total depth at 35 feet. Raised platform at drilling location is 5 feet above bottom of plating pit.
			AC13-B8-6.0	06/19/12	6	DP		
			AC13-B8-10.0	06/19/12	10	DP		
			AC13-A8-10.0[10]	06/19/12	10	DP		
			AC13-B8-15.0	06/19/12	15	DP		
			AC13-B8-20.0	06/19/12	20	DP		
			AC13-B8-25.0	06/19/12	25	DP		
			AC13-B8-30.0	06/19/12	30	DP		
			AC13-B8-35.0	06/19/12	35	DP		
		AC13-B9	AC13-B9-4.0	06/19/12	4	DP		Total depth at 40 feet. Raised platform at drilling location is 5 feet above bottom of plating pit.
			AC13-B9-6.0	06/19/12	6	DP		
			AC13-B9-10.0	06/19/12	10	DP		
			AC13-B9-15.0	06/19/12	15	DP		
			AC13-B9-20.0	06/19/12	20	DP		
			AC13-B9-25.0	06/19/12	25	DP		
			AC13-B9-30.0	06/19/12	30	DP		
			AC13-B9-35.0	06/19/12	35	DP		
			AC13-B9-40.0	06/19/12	40	DP		

TABLE 1

DESCRIPTION OF SOIL SAMPLES COLLECTED DURING DATA GAP INVESTIGATION
Crown City Plating Company
El Monte, California

Area Designation	Location	Boring ID	Sample ID	Sample Date	Sample Depth (feet[1])	Sampling Method	Rationale	Remark
Southeast Parking Lot	Down Gradient of Sump Outflow	SW1	SW1	03/08/12	0.5	HA	Elevated concentrations of COPCs were detected in the sump sediment sample during SSI. Also, asphalt surface in the area was stained.	
		SW2	SW2	03/08/12	0.5	HA		
			SW2a[11]	03/08/12	0.5	HA		
		SW3	SW3	03/08/12	0.5	HA		
		SW4a	SW4a-0.5	06/19/12	0.5	DP		
			SW4a-2.0	06/19/12	2	DP		
			SW4a-5.0	06/19/12	5	DP		
		SW4	SW4	03/08/12	0.5	HA		
			SW4-2.0	06/19/12	2	DP		
			SW4-5.0	06/19/12	5	DP		
		SW4b	SW4b-0.5	06/19/12	0.5	DP		
			SW4b-2.0	06/19/12	2	DP		
			SW4b-5.0	06/19/12	5	DP		
	Southeast Parking Area	SW5	SW5	03/08/12	0.5	HA	Stained asphalt surface. Potential contamination from discharge/surface water runoff from AOCs 5, 6, and 13.	
		SW6	SW6	03/08/12	0.5	HA		
		SW8a	SW8a-0.5	06/19/12	0.5	DP		
			SW8a-2.0	06/19/12	2	DP		
			SW8d-2.0[12]	06/19/12	2	DP		
			SW8a-5.0	06/19/12	5	DP		
		SW8	SW8	03/08/12	0.5	HA		
			SWA1[13]	03/08/12	0.5	HA		
			SW8-2.0	06/19/12	2	DP		
			SW8-5.0	06/19/12	5	DP		
		SW8b	SW8b-0.5	06/19/12	0.5	DP		
			SW8b-2.0	06/19/12	2	DP		
			SW8b-5.0	06/19/12	5	DP		
		SW7	SW7	03/08/12	0.5	HA		
		SW9	SW9	03/08/12	0.5	HA		

Notes:
1. feet below surface at sampling location.
2. AC01a-B1-5.0 is duplicate sample of AC01-B2-5.0
3. AC01a-B1-10.0 is duplicate sample of AC01-B3-10.0
4. AC01a-B2-10.0 is duplicate sample of AC01-B6-10.0
5. AC05a-B1-1.0 is duplicate sample of AC05-B2-1.0
6. AC05a-B1-15.0 is duplicate sample of AC05-B4-15.0
7. AC09a-01 is duplicate sample of AC09-07
8. AC13a-B1-1.0 is duplicate sample of AC13-B3-1.0
9. AC13a-B1-5.0 is duplicate sample of AC13-B7-5.0
10. AC13-A8-10.0 is duplicate sample of AC13-B8-10.0.
11. SW2a is duplicate sample of SW2
12. SW8d-2.0 is duplicate sample of SW8-2.0
13. SWA1 is duplicate sample of SW8

Abbreviations:
AOC: Area of Concern
HA: Hand Auger
DP: Direct Push
COPC: Chemical of Potential Concern

TABLE 2

SOIL SAMPLES RESULTS FOR METALS [1]
Crown City Plating Company
El Monte, California

Concentrations in milligrams per kilogram (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 1	AC01-B1-1.0	1	03/01/12	2.5	4.7	60	2.4	<0.40[2]	19	5.4J-[3]	9.2	30J[4]	6.9	0.14	<2.0	11	<5.0	<2.0	<5.0	40	47
	AC01-B1-5.0	5	03/01/12	2.8	3.5	50	2.4	<0.40	17	5.8J-	8.9	26J	4.6	0.067	<2.0	12	<5.0	<2.0	<5.0	41	44
	AC01-B1-10.0	10	03/01/12	<2.0	2.3	23	1.4	<0.40	10	3.6J-	5.2	17J	2.7	0.18	<2.0	7.4	<5.0	<2.0	<5.0	26	24
	AC01-B2-1.0	1	03/01/12	3.0	4.0	69	2.6	0.8	45	5.5J-	17	54J	11	0.084	<2.0	52	<5.0	<2.0	<5.0	48	100
	AC01-B2-5.0	5	03/01/12	<2.0	2.3	36	1.8	<0.40	14	3.6J-	6.7	21J	3.0	0.054	<2.0	33	<5.0	<2.0	<5.0	31	33
	AC01a-B1-5.0[5]	5	03/01/12	2.0	2.2	37	1.7	<0.40	14	4.5J-	6.6	20J	3.2	0.06	<2.0	34	<5.0	<2.0	<5.0	30	32
	AC01-B2-10.0	10	03/01/12	<2.0	3.0	29	1.5	<0.40	11	2.6J-	5.6	18J	3.9	1.4	<2.0	6.9	<5.0	<2.0	<5.0	25	26
	AC01-B3-1.0	1	03/01/12	3.1	4.5	68	2.7	<0.40	25	4.3J-	9.6	38J	7.4	0.082J	<2.0	15	<5.0	<2.0	<5.0	44	55
	AC01-B3-5.0	5	03/01/12	2.0	2.1	39	1.6	<0.40	12	3.4J-	6.1	17J	3.1	0.094J	<2.0	8.1	<5.0	<2.0	<5.0	28	31
	AC01-B3-10.0	10	03/01/12	<2.0	<2.0	20	0.91	<0.40	7.3	2.7J-	3.1	11J	2.3	0.066J	<2.0	4.8	<5.0	<2.0	<5.0	16	16
	AC01a-B1-10.0[6]	10	03/01/12	<2.0	<2.0	28	0.99	<0.40	6.8	2.5J-	3.5	13J	2.3	0.12J	<2.0	7.0	<5.0	<2.0	<5.0	21	17
	AC01-B3-15.0	15	03/01/12	<2.0	<2.0	21	0.88	<0.40	7.6	2.7J-	3.0	12J	2.6	0.13J	<2.0	4.3	<5.0	<2.0	<5.0	19	15
	AC01-B4-1.0	1	03/01/12	3.5	5.0	69	2.8	0.41	29	5.9J-	12	40J	9.5	0.087J	<2.0	17	<5.0	<2.0	<5.0	48	57
	AC01-B4-5.0	5	03/01/12	2.0	2.3	38	1.8	<0.40	13	3.3J-	7.0	19J	3.5	0.045J	<2.0	9.0	<5.0	<2.0	<5.0	33	33
	AC01-B4-10.0	10	03/01/12	<2.0	2.0	39	1.5	<0.40	14	4.9J-	5.7	16J	3.6	0.11J	<2.0	7.4	<5.0	<2.0	<5.0	28	30
	AC01-B5-1.0	1	03/05/12	2.7J-	3.7	60	2.4	0.41	21	5.2J-	9.9	31	6.8	0.27J	<2.0	13	<5.0	<2.0	<5.0	44	50
	AC01-B5-5.0	5	03/05/12	2.7J-	3.0	51	2.3	<0.40	19	7.7J-	8.3	25	4.4	0.058J	<2.0	12	<5.0	<2.0	<5.0	40	43
	AC01-B5-10.0	10	03/05/12	2.5	<2.0	21	1.1	<0.40	11	7.0J-	3.6	13	2.4	0.11J	<2.0	4.6	<5.0	<2.0	<5.0	18	19
	AC01-B6-1.0	1	03/05/12	6.7J-	4.3	69	2.8	<0.40	19	6.7J-	11	62	9.6	0.14J	<2.0	16	<5.0	<2.0	<5.0	46	54
	AC01-B6-5.0	5	03/05/12	3.3J-	2.1	32	1.4	<0.40	10	3.3J-	5.5	15	2.6	0.14J	<2.0	7.4	<5.0	<2.0	<5.0	25	25
	AC01-B6-10.0	10	03/05/12	<2.0UJ[7]	<2.0	19	0.72	<0.40	4.7	3.4J-	2.3	10	2.0	0.13J	<2.0	3.0	<5.0	<2.0	<5.0	12	13
	AC01a-B2-10.0[8]	10	03/05/12	<2.0UJ	<2.0	20	0.83	<0.40	6.8	3.2J-	2.8	11	2.1	0.26J	<2.0	3.8	<5.0	<2.0	<5.0	14	15
AOC 5	AC05-B1-1.0	1	03/02/12	3.0	4.4	62	2.7	0.43	19	3.7J-	10	34	5.4	0.30	<2.0	14	<5.0	<2.0	<5.0	45	50
	AC05-B1-5.0	5	03/02/12	2.7J-	4.7	47	2.3	<0.40	16	4.4J-	8.3	29	5.1	0.056	<2.0	11	<5.0	<2.0	<5.0	40	40
	AC05-B1-10.0	10	03/02/12	<2.0UJ	<2.0	23	0.86	<0.40	6.0	1.9J-	3.2	11	2.3	0.095	<2.0	4.4	<5.0	<2.0	<5.0	17	17
	AC05-B2-1.0	1	03/02/12	3.6J-	4.8	67	2.9	0.53	26	5.9J-	10	36	6.0	0.12J	<2.0	23	<5.0	<2.0	<5.0	49	54
	AC05a-B1-1.0[9]	1	03/02/12	3.5J-	4.7	67	2.9	0.5	27	6.7J-	11	37	6.1	0.077	<2.0	18	<5.0	<2.0	<5.0	51	55
	AC05-B2-5.0	5	03/02/12	3.3J-	4.4	63	2.9	0.59	22	5.2J-	11	37	6.4	0.20	<2.0	16	<5.0	<2.0	<5.0	52	57
	AC05-B2-10.0	10	03/02/12	3.0J-	3.9	57	2.5	<0.40	16	6.4J-	9.2	28	5.7	0.17	<2.0	12	<5.0	<2.0	<5.0	43	45
	AC05-B3-1.0	1	03/02/12	3.3J-	4.9	77	3.0	0.71	25	6.1J-	13	41	6.4	0.075J	<2.0	18	<5.0	<2.0	<5.0	55	62
	AC05-B3-5.0	5	03/02/12	3.4J-	4.3	62	2.9	0.46	22	5.2J-	10	34	5.7	0.18	<2.0	16	<5.0	<2.0	<5.0	50	51
	AC05-B3-10.0	10	03/02/12	2.4J-	3.3	48	2.3	<0.40	16	6.5J-	8.6	27	5	0.16	<2.0	11	<5.0	<2.0	<5.0	40	43
	AC05-B4-1.0	1	03/02/12	2.3J-	3.6	50	2.2	<0.40	15	5.4J-	11	27	5.2	0.26J	<2.0	11	<5.0	<2.0	<5.0	37	41
	AC05-B4-5.0	5	03/02/12	3.6J-	4.5	74	3.1	0.75	25	5.8J-	12	42	6.5	0.093	<2.0	18	<5.0	<2.0	<5.0	56	61
	AC05-B4-10.0	10	03/02/12	3.0J-	3.9	60	2.7	0.51	21	5.9J-	10	33	5.5	0.14	<2.0	15	<5.0	<2.0	<5.0	49	52
	AC05-B5-1.0	1	03/02/12	3.7J-	2.2	49	2.2	1.0	100	17J-	14	1700	4.8	0.34J	<2.0	3000	<5.0	<2.0	<5.0	31	83
	AC05-B5-5.0	5	03/02/12	4.4J-	4.0	74	3.1	0.49	72	38J-	11	38	5.8	0.08	<2.0	17	<5.0	<2.0	<5.0	47	56
	AC05-B5-10.0	10	03/02/12	4.2J-	3.9	69	3.1	0.42	89	71	11	36	6.2	0.093	<2.0	17	<5.0	<2.0	<5.0	53	58
	AC05-B5-15.0	15	03/02/12	5.5J	2.7	49	2.5	0.29J	45	36J	8.5	30	5.4	0.18R	0.71J	9.7	3.1J	<2.0	2.2J	52	48
	AC05-B5-20.0	20	03/02/12	3.7J-	1.4J	29	1.6	0.088J	16	9.0J	4.8	15	3.4	0.84R	0.44J	5.3	1.7J	<2.0	0.54J	31	28
	AC05-B6-1.0	1	03/05/12	<2.0UJ	10	74	2.6	1.2	1100	380	18	150	390	0.65J	3	86	<5.0	<2.0	<5.0	47	150
	AC05-B6-5.0	5	03/05/12	3.7J-	4.5	71	3.0	0.67	25	6.1J-	12	42	6.6	0.000094J	<2.0	19	<5.0	<2.0	<5.0	56	59
	AC05-B6-10.0	10	03/05/12	3.8J-	4.5	75	3.1	0.49	24	6.1J-	11	38	6.3	0.067J	<2.0	18	<5.0	<2.0	<5.0	54	60
AOC 7	AC07-03-1.0	1	03/08/12	8.2J	7.4J	89J	3.5J	0.73J	28J	4.2J-	12J	54J	13J	0.11J	0.14J	28J	1.7J	0.11J	3.0J	53J	78J
	AC07-03-5.0	5	03/08/12	10J	4.1J	81J	4.2J	<0.40UJ	26J	4.3J-	11J	53J	7.6J	0.082J	<2.0UJ	19J	0.63J	<2.0UJ	0.75J	56J	67J
	AC07-04-1.0	1	03/08/12	10J	9.9J	95J	4.3J	0.59J	47J	4.3J-	13J	78J	21J	0.091J	0.24J	30J	0.83J	<2.0UJ	1.3J	62J	100J
	AC07-04-5.0	5	03/08/12	8.4J	3.7J	74J	3.6J	<0.40UJ	22J	4.2J-	9.6J	43J	6.0J	0.094J	<2.0UJ	17J	1.8J	0.24J	1.4J	49J	55J
	AC07-05-1.0	1	03/08/12	11	7.0	97	4.6	0.29J	44	5.8J-	13	100	15	0.17	0.23J	35	0.80J	0.61J	0.82J	66	87
	AC07-05-5.0	5	03/08/12	10	4.5	92	4.2	<0.40	28	4.0J-	12	54	7.9	0.12	<2.0	20	1.4J	0.32J	1.5J	60	68
	AC07-06-1.0	1	03/08/12	11J	7.6J	100J	4.5J	1.0J	54J	4.8J-	14J	67J	14J	0.13J	<2.0UJ	28J	1.4J	3.4J	0.83J	62J	84J
	AC07-06-5.0	5	03/08/12	9.7J	4.9J	100J	4.2J	<0.40UJ	26J	4.0J-	12J	55J	7.5J	0.092J	<2.0UJ	19J	1.6J	0.33J	1.5J	58J	65J

TABLE 2

SOIL SAMPLES RESULTS FOR METALS[1]
Crown City Plating Company
El Monte, California

Concentrations in milligrams per kilogram (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 9	AC09-04	0.5	03/08/12	7.4J	3.6J	71J	3.1J	<0.40UJ	32J	4.4J-	10J	56J	14J	0.24J	0.28J	29J	1.3J	0.21J	2.8J	45J	80J
	AC09-05	0.5	03/08/12	6.0J	3.8J	62J	2.8J	<0.40UJ	86J	4.0J-	8.8J	42J	12J	0.11J	0.16J	23J	1.7J	0.25J	1.7J	41J	61J
	AC09-06	0.5	03/08/12	9.5J	4.7J	93J	4.1J	<0.40UJ	33J	5.1J-	14J	79J	16J	0.091J	<2.0UJ	33J	2.1J	0.14J	2.6J	56J	110J
	AC09-07	0.5	03/08/12	10J	7.0J	89J	4.3J	0.91J	68J	4.1J-	13J	63J	15J	0.090J	0.21J	250J	1.2J	<2.0UJ	0.55J	60J	230J
	AC09a-01[10]	0.5	03/08/12	9.9J	8.6J	92J	4.3J	0.98J	74J	4.7J-	14J	67J	15J	0.13J	0.20J	270J	2.2J	<2.0UJ	2.5J	59J	250J
	AC09-08	0.5	03/08/12	8.6J	5.7J	82J	3.7J	0.64J	85J	6.3J-	36J	640J	85J	0.13J	1.5J	690J	1.1J	1.0J	3.4J	54J	750J
	AC09-09	0.5	03/08/12	7.6J	4.9J	87J	3.5J	0.68J	120J	3.8J+[11]	18J	1700J	21J	0.90J	0.65J	510J	1.5J	0.88J	2.8J	49J	300J
AOC 13	AC13-B1-1.0	1	03/06/12	6.2J-	4.2	72	3.0	0.12J	180	110	12	39	6.1	0.083J	<2.0	21	1.7J	0.33J	<5.0	50	57
	AC13-B1-5.0	5	03/06/12	5.0J-	3.4	47	2.4	0.083J	120	92	8.5	32	4.8	0.091J	<2.0	11	1.4J	0.23J	<5.0	42	47
	AC13-B1-10.0	10	03/06/12	2.0J-	2.9	32	1.7	0.068J	250	180J+	5.7	17	3.9	0.34J	<2.0	7.8	0.83J	0.17J	<5.0	28	31
	AC13-B1-13.0	13	03/06/12	2.5J	2.6	33	1.6	0.086J	200	160J	6.1	19	4.2	0.36R	0.57J	8.6	2.1J	<2.0	0.93J	32	48
	AC13-B2-1.0	1	03/05/12	5.4J-	3.0	48	2.2	<0.40	24	7.4J-	18	27	5.4	0.061J	<2.0	13	<5.0	<2.0	<5.0	36	41
	AC13-B2-5.0	5	03/05/12	2.0J-	<2.0	21	0.87	<0.40	8.0	2.7J-	3.4	11	<2.0	0.052	<2.0	5.5	<5.0	<2.0	<5.0	17	17
	AC13-B2-10.0	10	03/05/12	3.5J-	2.2	36	1.7	<0.40	12	6.3J-	5.5	18	4.2	0.27	<2.0	7.8	<5.0	<2.0	8.7	27	31
	AC13-B3-1.0	1	03/06/12	<4.0UJ	16	51	1.6	0.23J	3500	1400	23	82	12	0.44J	<2.0	44	0.88J	0.50J	<5.0	28	72
	AC13a-B1-1.0[12]	1	03/06/12	<4.0UJ	12	46	1.4	0.24J	2800	1300	16	74	9.8	0.13J	<2.0	45	0.82J	0.68J	<5.0	24	69
	AC13-B3-5.0	5	03/06/12	<4.0UJ	8.5	45	1.5	<0.40	1600	1200	4.9	17	7.2	0.24J	0.32J	8.0	1.1J	0.14J	<5.0	25	39
	AC13-B3-10.0	10	03/06/12	1.3J	1.9J	22	0.92	<0.40	130	4.2J-	3.1	12	2.6	0.097J	0.24J	4.0	0.73J	<2.0	<5.0	15	18
	AC13-B4-1.0	1	03/05/12	3.4J-	<2.0	32	1.4	<0.40	13	4.8J-	5.3	16	2.6	0.065J	<2.0	7.2	<5.0	<2.0	<5.0	25	26
	AC13-B4-5.0	5	03/05/12	5.4J-	3.2	52	2.4	<0.40	16	6.1J-	9.0	29	4.7	0.23	<2.0	11	<5.0	<2.0	<5.0	38	46
	AC13-B4-10.0	10	03/05/12	2.9J-	<2.0	21	1.2	<0.40	9.0	4.3J-	4.2	15	2.8	0.22J	<2.0	5.8	<5.0	<2.0	<5.0	21	21
	AC13-B5-1.0	1	03/05/12	5.3J-	3.2	53	2.3	<0.40	18	13J-	8.5	26	4.5	0.63J	<2.0	11	<5.0	<2.0	<5.0	38	41
	AC13-B5-5.0	5	03/05/12	5.1J-	3.2	50	2.3	<0.40	16	6.3J-	8.4	28	4.8	0.32J	<2.0	11	<5.0	<2.0	<5.0	39	43
	AC13-B5-10.0	10	03/05/12	4.0J-	3.1	34	2.0	<0.40	76	77J-	7.6	25	4.7	0.64J	<2.0	8.3	<5.0	<2.0	<5.0	36	36
	AC13-B6-1.0	1	03/06/12	6.2J-	3.3	62	2.6	0.084J	29	9.2J-	12	30	6.5	0.16J	0.16J	19	1.1J	0.42J	<5.0	44	49
	AC13-B6-5.0	5	03/06/12	5.2J-	2.8	49	2.2	0.070J	15	6.9J-	8.0	25	4.5	0.27J	0.17J	10	0.087J	0.24J	<5.0	38	42
	AC13-B6-10.0	10	03/06/12	2.3J-	1.9J	20	1.0	0.034J	9.2	4.1J-	4.3	13	2.5	0.14J	<2.0	5.6	1.0J	<2.0	<5.0	20	21
	AC13-B7-1.0	1	03/06/12	3.9J-	1.9J	37	1.7	0.023J	16	6.0J-	7.2	20	3.6	0.064J	<2.0	10	0.38J	0.14J	<5.0	29	32
	AC13-B7-5.0	5	03/06/12	4.7J-	2.3	39	2.1	0.055J	13	7.1J-	7.4	27	4.3	0.42J	<2.0	9.3	1.0J	0.22J	<5.0	34	38
	AC13a-B1-5.0[13]	5	03/06/12	4.6J-	2.2	39	2.0	0.035J	13	3.2J-	7.0	24	4.0	0.14J	0.13J	8.7	0.91J	0.23J	<5.0	32	37
	AC13-B7-10.0	10	03/06/12	2.1J-	1.6J	22	1.1	0.038J	7.2	1.6	3.6	12	2.4	0.29J	<2.0	5.1	0.87J	<2.0	<5.0	19	19
	AC13-B8-4.0	4	6/19/2012	7.3	5.0	79	3.0	0.17	27.0	4.2J-	12.0	46	10.0	0.086J	0.88J	17	2.1J	<2.0	3.8J	55	69J-
	AC13-B8-6.0	6	6/19/2012	7.7	4.4	84	3.2	0.11J	29	5.7J-	13	45	6.7	0.099J	0.74J	15	2.7	<2.0	3.6J	60	63J-
	AC13-B8-10.0	10	6/19/2012	5.5	2.5	55	2.4	0.059J	20	4.0J-	9.8	27	4.8	0.12J	0.60J	10	1.8	<2.0	2.2J	46	47J-
	AC13-A8-10.0[13]	10	6/19/2012	5.4	2.8	51	2.3	<0.40	19	4.8J-	9.4	25	4.6	0.21J	0.62J	9.7	1.5J	<2.0	2.6J	43	44J-
	AC13-B8-15.0	15	6/19/2012	3.1	1.3J	27	1.4	<0.40	9.2	5.3J-	2.8	16	3.2	0.31J	0.47J	4.8	0.80J	<2.0	1.5J	26	29J-
	AC13-B8-20.0	20	6/19/2012	2.4	0.80J	21	0.97	<0.40	10	2.2J-	3.7	11	2.5	0.17J	0.39J	2.9	1.1J	<2.0	1.1J	21	17J-
	AC13-B9-4.0	4	6/19/2012	6.3	3.2	73	2.7	0.044J	21	5.1J-	11	36	14	0.088J	0.81J	14	1.7J	<2.0	3.0J	48	60J-
	AC13-B9-6.0	6	6/19/2012	7.9	4.0	90	3.4	0.076J	27	4.1J-	13	48	7.1	0.096J	0.84J	17	1.7J	<2.0	3.9J	63	65J-
	AC13-B9-10.0	10	6/19/2012	5.5	2.3	56	2.4	0.025J	17	0.46J	9.7	26	4.8	0.11J	0.65J	10	1.3J	<2.0	2.6J	46	46J-
	AC13-B9-15.0	15	6/19/2012	3.4	1.1J	31	1.4	<0.40	11	3.1J-	5.3	18.0	3.0	0.21J	0.46J	5.1	1.3J	<2.0	1.3J	26	28J-
	AC13-B9-20.0	20	6/19/2012	3.1	1.5J	21	1.4	<0.40	9.8	4.7J-	4.5	15	3.1	0.41J	0.70J	3.8	1.1J	<2.0	1.5J	26	23J-

TABLE 2

SOIL SAMPLES RESULTS FOR METALS[1]
Crown City Plating Company
El Monte, California

Concentrations in milligrams per kilogram (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Southeast Parking Lot	SW1	0.5	03/08/12	8.9	6.5	83	3.7	0.12J	35	3.7J-	17	50	11	0.27	<2.0	54	1.3J	0.14J	0.82J	52	71
	SW2	0.5	03/08/12	9.9	5.6	89	4.1	0.59	28	3.8J-	17	53	11	0.096	<2.0	2600	1.1J	0.13J	1.6J	57	76
	SW2a[15]	0.5	03/08/12	9.6	5.5	87	4.0	0.65	29	4.4J-	18	54	12	0.098J-	<2.0	2800	1.1J	0.12J	2.4J	58	78
	SW3	0.5	03/08/12	9.1J	5.2J	90J	3.8J	<0.40UJ	28J	4.6J+	12J	52J	10J	0.058J	<2.0UJ	21J	1.6J	0.19J	3.4J	56J	71J
	SW4	0.5	03/08/12	4.1J	8.9J	190J	3.3J	0.42J	890J	400J+	12J	110J	3700J	0.26J	0.34J	270J	1.6J	0.74J	2.7J	46J	130J
	SW4-2.0	2	6/19/2012	8.2J-	4.0	80	3.4	0.18 J	26J-	6.1J-	13	44	6.7	0.10J	0.93 J	16	1.8 J	<2.0	3.3 J	60	63
	SW4-5.0	5	6/19/2012	8.1J-	4.5	77	3.3	0.16 J	25J-	6.2J-	12	44	6.3	0.12J	0.76 J	15	1.6 J	<2.0	3.5 J	61	62
	SW4a-0.5[16]	0.5	6/19/2012	7.9J-	3.8	80	3.3	0.15 J	26J-	7.6J-	13	44	6.4	0.07J	0.87 J	16	1.8 J	<2.0	3.4 J	57	63
	SW4b-0.5[16]	0.5	6/19/2012	8.6J-	3.9	100	3.7	0.19 J	30J-	3.7J	14	46	12	0.12J	0.91 J	28	1.9 J	<2.0	3.6 J	66	80
	SW5	0.5	03/08/12	9.6J	5.6J	89J	4.1J	0.096J	30J	4.1J+	12J	55J	16J	0.11J	<2.0UJ	21J	0.91J	<2.0UJ	2.5J	59J	78J
	SW6	0.5	03/08/12	7.8J-	4.7	74	3.3	<0.40UJ	28	4.1J+	12	43	20	0.081	1.0J	23J	3.1J	<2.0	1.3J	55	72
	SW7	0.5	03/08/12	7.1J-	10	79J	3.0	0.27J	39	3.4J+	14	55	41	0.092J	0.43J	52J	1.7J	0.23J	<5.0	47	86
	SW8	0.5	03/08/12	5.0J-	6.7J	110J	3.0J	0.95J	510J	110J+	9.8J	200J	1900J	0.13J	0.30J	660J	1.7J	0.74J	2.3J	44J	250J
	SWA1[17]	0.5	03/08/12	6.2J-	5.4J	89J	2.8J	0.64J	320J	82J+	10J	200J	1200J	0.074J	0.29J	380J	1.4J	0.55J	2.4J	41J	190J
	SW8-2.0	2	6/19/2012	7.5	9.5	120	3.2	1.2	770	49J-	14	220	3300J	0.14J	1.3J	650J	2.0J	<2.0	3.7J	57	260J-
	SW8d-2.0[18]	2	6/19/2012	7.5	7.4	100	3.7	0.97	230	95J-	14	190	680J	0.13J	1.2J	270J	2.5J	<2.0	3.7J	59	200J-
	SW8-5.0	5	6/19/2012	8.0	4.3	87	3.4	0.11J	26	5.5J-	14	48	7.3	0.15J	0.87J	16	2.3J	<2.0	3.5J	61	63J-
	SW8a-0.5[19]	0.5	6/19/2012	7.3	5.2	85	3.1	0.38J	72	4.9J-	12	120	170J	0.12J	1.1J	110J	2.9J	<2.0	3.5J	55	140
	SW8b-0.5[19]	0.5	6/19/2012	8.6	7.4	97	3.6	1.5	78	5.8J-	15	130	56J	0.15J	1.0J	170J	1.9J	<2.0	3.6J	65	180J-
	SW9	0.5	03/08/12	9.0J	5.3J	90J	4.0J	0.096J	75J	3.7J+	13J	140J	32J	0.14J	<2.0UJ	28J	1.7J	0.17J	1.8J	53J	86J
Background	BK5	1	03/08/12	NA[20]	3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BK6	1	03/08/12	NA	6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BK7	1	03/08/12	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BG1	2	03/04/10	<4.0	4.2	100	1.1	<0.80	30	<4.6 UJ	12	50	8.9	0.120	6.8	18	<10	<4.0	<10	61	75
	BG2	2	03/04/10	<4.0	4.4	86	1.0	<0.80	26	<4.9 UJ	10	64	8.8	0.099	5.3	26	<10	<4.0	<10	54	64
	BG3	2	03/04/10	<4.0	5.3	95	0.95	<0.80	24	<4.0 UJ	11	51	37	0.073	<4.0	18	<10	<4.0	<10	57	100
	BG4	2	03/04/10	<4.0	4.9	100	1.0	<0.80	27	<4.1 UJ	12	53	11	0.055	<4.0	20	<10	<4.0	<10	62	79
CHHSLs[21]	Residential land Use			30	0.07	5,200	16	1.7	100,000	17	660	3,000	80	18	380	1,600	380	380	5	530	23,000
	Commercial/ Industrial Use			380	0.24	63,000	190	7.5	100,000	37	3,200	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000
RSLs[22]	Residential Soil			31	0.39	15,000	160	70	120,000	0.29	23	3,100	400	10	390	3,700	390	390	0.78	390	23,000
	Industrial Soil			410	1.6	190,000	2,000	800	1,500,000	5.6	300	41,000	800	43	5,100	44,000	5,100	5,100	10	5,200	310,000

Notes:
1. Analyzed using EPA Methods 6010B and 7471A. Hexavalent chromium was analyzed using EPA Method 7196A.
2. Not detected above the reporting limit shown.
3. J- = Result is an estimate may be biased low.
4. J = Results is an estimate.
5. AC01a-B1-5.0 is duplicate sample of AC01-B2-5.0.
6. AC01a-B1-10.0 is duplicate sample of AC01-B3-10.0.
7. Not detected above the estimated reporting limit shown.
8. AC01a-B2-10.0 is duplicate sample of AC01-B6-10.0.
9. AC05a-B1-1.0 is duplicate sample of AC05-B2-1.0.
10. AC09a-01 is duplicate sample of AC09-07.
11. J+ = Result is an estimate may be biased high.
12. AC13a-B1-1.0 is duplicate sample of AC13-B3-1.0.
13. AC13a-B1-5.0 is duplicate sample of AC13-B7-5.0.
14. AC13-A8-10.0 is duplicate sample of AC13-B8-10.0.
15. SW2a is duplicate sample of SW2.
16. Step-out locations for SW4.
17. SWA1 is duplicate sample of SW8.
18. SW8d-2.0 is duplicate sample of SW8-2.0.
19. Step-out locations for SW8.
20. NA = not analyzed.
21. California Human Health Screening Levels (CHHSLs) last updated in 2009.
22. U.S EPA Regional 9 Screening Levels (RSLs) last updated in May 2012.

TABLE 3

SOIL SAMPLE RESULTS FOR CYANIDE [1]
Crown City Plating Company
El Monte, California

Concentrations in milligrams per kilogram (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Cyanide
Southeast Parking Lot	SW7	0.5	03/08/12	0.72J [2]
	SW2	0.5	03/08/12	<1.0 [3]
	SW2a [4]	0.5	03/08/12	<1.0

Notes:
1. Analyzed using EPA Method 9014.
2. J = Results is an estimate. The analyte was detected above method detection limit but below reporting limit.
3. Not detected above reporting limit shown.
4. SW2a is the duplicate sample of SW2.

TABLE 4

SOIL SAMPLE RESULTS FOR PERCHLORATE [1]

Crown City Plating Company
El Monte, California

Concentrations in micrograms per kilogram (µg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Perchlorate
AOC 13	AC13-B9-6.0	6.0	06/19/12	<20 [2]
	AC13-B8-6.0	6.0	06/19/12	<20
Southeast Parking Lot	SW8a-0.5	0.5	06/19/12	<20
	SW8b-0.5	0.5	06/19/12	<20
	SW4a-0.5	0.5	06/19/12	<20
	SW4b-0.5	0.5	06/19/12	<20

Notes:
1. Analyzed using EPA Method 314.0.
2. Not detected above reporting limit shown.

Abbreviation:
AOC = Area of Concern.

TABLE 5

CUMULATIVE RESULTS FOR HEXAVALENT CHROMIUM AND OTHER METALS IN SOIL SAMPLES

Crown City Plating Company

El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Area Designation	Plating Line	Sample ID	Sample Depth (feet)	Sample Date	Hexavalent Chromium	Chromium	Other Metals [1]
AOC 1	Metal Plating Department	CC-10-17	17	Clayton, 2006	NA[2]	15.7	
		CC-11-17	17	Clayton, 2006	NA	5.64	
		AC01-03-0.5	0.5	02/11/10	<4.0[3]	23	
		AC01-04-0.5	0.5	02/11/10	<4.1	25	
		AC01-05-0.5	0.5	02/12/10	<4.9 UJ	16 J-	
		Dup (AC19-01)	0.5	02/12/10	<4.2 UJ	16 J-	
		AC01-06-0.5	0.5	02/11/10	<4.7	23	
		AC01-07-6	6.0	03/04/10	<4.3 UJ	26	
		AC01-08-0.5	0.5	03/05/10	<4.2 UJ	27	
		AC01-09-0.5	0.5	03/05/10	<4.4 UJ	16	
		AC01-13	0.5	07/21/10	<4.5 UJ	28	
		AC01-14	0.5	07/21/10	<4.7 UJ	24	
		AC01-15	0.5	07/21/10	120 J-	3,200	lead (570)
		AC01-16	0.5	07/21/10	<3.4 UJ	23	
		AC01-17	0.5	07/21/10	7.1 J-	300	
		AC01-18	0.5	07/21/10	<4.9 UJ	15	
		AC01-19	0.5	07/21/10	<4.0 UJ	21	
		AC01-20	0.5	07/21/10	<4.4 UJ	21	
		AC01-B1-1.0	1	03/01/12	5.4J-[3]	19	
		AC01-B1-5.0	5	03/01/12	5.8J-	17	
		AC01-B1-10.0	10	03/01/12	3.6J-	10	
		AC01-B2-1.0	1	03/01/12	5.5J-	45	
		AC01-B2-5.0	5	03/01/12	3.6J-	14	
		Dup (AC01a-B1)	5	03/01/12	4.5J-	14	
		AC01-B2-10.0	10	03/01/12	2.6J-	11	
		AC01-B3-1.0	1	03/01/12	4.3J-	25	
		AC01-B3-5.0	5	03/01/12	3.4J-	12	
		AC01-B3-10.0	10	03/01/12	2.7J-	7.3	
		Dup (AC01a-B1)	10	03/01/12	2.5J-	6.8	
		AC01-B3-15.0	15	03/01/12	2.7J-	7.6	
		AC01-B4-1.0	1	03/01/12	5.9J-	29	
		AC01-B4-5.0	5	03/01/12	3.3J-	13	
		AC01-B4-10.0	10	03/01/12	4.9J-	14	
	Plating Line 1	CC-17-13	13	Clayton, 2006	55.6	62.3	
		CC-18-12	12	Clayton, 2006	20.1	47.4	
		AC01-10	0.5	07/21/10	<3.7 UJ	26	
		AC01-11	0.5	07/21/10	<4.3 UJ	20	
		AC01-12	0.5	07/21/10	<4.8 UJ	19	
		Dup (AC01-12D)	0.5	07/21/10	<4.8 UJ	20	
		AC01-B5-1.0	1	03/05/12	5.2J-	21	
		AC01-B5-5.0	5	03/05/12	7.7J-	19	
		AC01-B5-10.0	10	03/05/12	7.0J-	11	
		AC01-B6-1.0	1	03/05/12	6.7J-	19	
		AC01-B6-5.0	5	03/05/12	3.3J-	10	
		AC01-B6-10.0	10	03/05/12	3.4J-	4.7	
		Dup (AC01a-B2)	10	03/05/12	3.2J-	6.8	

TABLE 5

CUMULATIVE RESULTS FOR HEXAVALENT CHROMIUM AND OTHER METALS IN SOIL SAMPLES

Crown City Plating Company

El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Area Designation	Plating Line	Sample ID	Sample Depth (feet)	Sample Date	Hexavalent Chromium	Chromium	Other Metals [1]
AOC 2		CC-12-17	17	Clayton, 2006	NA	11.3	
		CC-13-17	17	Clayton, 2006	NA	12.3	
		CC-14-17	17	Clayton, 2006	NA	11.4	
		CC-15-17	17	Clayton, 2006	NA	30.2	
		AC02-01-0.5	0.5	02/12/10	<4.3 UJ	27 J-	
		AC02-02-0.5	0.5	02/12/10	<4.2 UJ	25 J-	
AOC 3		CC-16-17	17	Clayton, 2006	ND	10.0	
		AC03-01-0.5	0.5	02/12/10	<4.2 UJ	26 J-	
		Dup (AC18-01)	0.5	02/12/10	<4.9 UJ	25 J-	
AOC 4		CC-36-20	20	Clayton, 2006	ND	11.0	
		CC-37-18	18	Clayton, 2006	NA	6.43	
		AC04-01-0.5	0.5	02/11/10	<4.7	30	
		AC04-02-0.5	0.5	02/11/10	<5.0	37	
AOC 5	Plating Line 3	CC-21-20	20	Clayton, 2006	9.86	31.8	
		CC-22-18	18	Clayton, 2006	NA	27.6	
		AC05-02-0.5	0.5	03/04/10	<3.8 UJ	44	
		AC05-03-5.5	5.5	03/04/10	<4.7 UJ	19	
		AC5-04	0.5	07/21/10	160 J-	15,000	lead (420) nickel (25,000)
		AC5-05	0.5	07/21/10	<4.6 UJ	22	
		AC05-B4-1.0	1	03/02/12	5.4J-	15	
		AC05-B4-5.0	5	03/02/12	5.8J-	25	
		AC05-B4-10.0	10	03/02/12	5.9J-	21	
		AC05-B5-1.0	1	03/02/12	17J-	100	
		AC05-B5-5.0	5	03/02/12	38J-	72	
		AC05-B5-10.0	10	03/02/12	71	89	
		AC05-B5-15.0	15	03/02/12	36J	45	
		AC05-B5-20.0	20	03/02/12	9.0J	16	
		AC05-B6-1.0	1	03/05/12	380	1,100	lead (390)
		AC05-B6-5.0	5	03/05/12	6.1J-	25	
		AC05-B6-10.0	10	03/05/12	6.1J-	24	
	Plating Line 5	CC-19-16.5	16.5	Clayton, 2006	<0.5	28.0	
		CC-20-20	20	Clayton, 2006	NA	25.2	
		AC05-01-6	6.0	03/04/10	<4.2 UJ	29	
		AC5-06	0.5	07/21/10	<4.4 UJ	24	
		AC5-07	0.5	07/21/10	6.5 J-	68	
		AC5-08	0.5	07/21/10	<4.9 UJ	32	
		Dup (AC5-08D)	0.5	07/21/10	4.8 J-	44	
		AC05-B1-1.0	1	03/02/12	3.7J-	19	
		Dup (AC05a-B1)	1	03/02/12	6.7J-	27	
		AC05-B1-5.0	5	03/02/12	4.4J-	16	
		AC05-B1-10.0	10	03/02/12	1.9J-	6.0	
		AC05-B2-1.0	1	03/02/12	5.9J-	26	
		AC05-B2-5.0	5	03/02/12	5.2J-	22	
		AC05-B2-10.0	10	03/02/12	6.4J-	16	
		AC05-B3-1.0	1	03/02/12	6.1J-	25	
		AC05-B3-5.0	5	03/02/12	5.2J-	22	
		AC05-B3-10.0	10	03/02/12	6.5J-	16	

TABLE 5

CUMULATIVE RESULTS FOR HEXAVALENT CHROMIUM AND OTHER METALS IN SOIL SAMPLES

Crown City Plating Company

El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Area Designation	Plating Line	Sample ID	Sample Depth (feet)	Sample Date	Hexavalent Chromium	Chromium	Other Metals [1]
AOC 6		CC-33-20	20	Clayton, 2006	11.7	151	
		AC06-01-0.5	0.5	02/12/10	<4.7 UJ	39 J-	
		AC06-01-5.5	5.5	02/12/10	<4.9 UJ	25 J-	
		AC06-02-0.5	0.5	02/12/10	150 J-	4,200 J-	
		AC06-02-4.5	4.5	02/12/10	14 J-	410 J-	
		AC06-03	0.5	07/21/10	12	610	
		Dup (AC06-03D)	0.5	07/21/10	6.3	1,100	
AOC 7		CC-3-20	20	Clayton, 2006	<0.5	25.8	
		CC-4-20	20	Clayton, 2006	NA	19.7	
		AC07-01-0.5	0.5	02/11/10	<3.5	84	
		AC07-02-0.5	0.5	02/11/10	89	6,100	arsenic (130)
		AC07-02-5	5.0	03/05/10	<4.8 UJ	28	
		AC07-03-1.0	1	03/08/12	4.2J-	28J	
		AC07-03-5.0	5	03/08/12	4.3J-	26J	
		AC07-04-1.0	1	03/08/12	4.3J-	47J	
		AC07-04-5.0	5	03/08/12	4.2J-	22J	
		AC07-05-1.0	1	03/08/12	5.8J-	44	
		AC07-05-5.0	5	03/08/12	4.0J-	28	
		AC07-06-1.0	1	03/08/12	4.8J-	54J	
		AC07-06-5.0	5	03/08/12	4.0J-	26J	
AOC 9		CC-7-20	20	Clayton, 2006	NA	20.9	
		CC-8-20	20	Clayton, 2006	<0.5	26.3	
		AC09-01-3.5	3.5	02/11/10	<3.6	44	
		AC09-02-3.5	3.5	02/12/10	<4.8 UJ	50 J-	
		AC09-03	0.5	07/21/10	<4.7	37	arsenic (13)
		AC09-04	0.5	03/08/12	4.4J-	32J	
		AC09-05	0.5	03/08/12	4.0J-	86J	
		AC09-06	0.5	03/08/12	5.1J-	33J	
		AC09-07	0.5	03/08/12	4.1J-	68J	
		Dup (AC09a-01)	0.5	03/08/12	4.7J-	74J	
		AC09-08	0.5	03/08/12	6.3J-	85J	
		AC09-09	0.5	03/08/12	3.8J+[11]	120J	
AOC 10		CC-27-20	20	Clayton, 2006	NA	21.1	
		CC-28-20	20	Clayton, 2006	NA	12.4	
		AC10-01-0.5	0.5	02/12/10	<3.5 UJ	23 J-	
		Dup (AC20-01)	0.5	02/12/10	<3.7 UJ	23 J-	
		AC10-02-0.5	0.5	02/12/10	<4.0 UJ	25 J-	
		AC10-01-0.5	0.5	02/12/10	<3.5 UJ	23 J-	
		AC10-02-0.5	0.5	02/12/10	<4.0 UJ	25 J-	
AOC 11		CC-29-20	20	Clayton, 2006	NA	21.1	
		CC-30-20	20	Clayton, 2006	NA	19.0	
		AC11-01-0.5	0.5	02/12/10	<4.3 UJ	25 J-	
AOC 12		CC-29-20	20	Clayton, 2006	NA	21.1	
		CC-30-20	20	Clayton, 2006	NA	19.0	
		CC-9-20	20	Clayton, 2006	NA	8.6	
		CC-31-20	20	Clayton, 2006	NA	6.1	
		CC-32-20	20	Clayton, 2006	NA	6.16	
		AC12-01-5	5.0	02/12/10	<4.6 UJ	21 J-	
		AC12-02-5	5.0	02/12/10	<4.7 UJ	21 J-	

TABLE 5

CUMULATIVE RESULTS FOR HEXAVALENT CHROMIUM AND OTHER METALS IN SOIL SAMPLES

Crown City Plating Company

El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Area Designation	Plating Line	Sample ID	Sample Depth (feet)	Sample Date	Hexavalent Chromium	Chromium	Other Metals [1]
AOC 13	Plating Line 6	CC-25-17	17	Clayton, 2006	NA	5.18	
		CC-26-20	20	Clayton, 2006	NA	10.5	
		AC13-01-0.5	0.5	02/11/10	<4.1	27	
		AC13-02-0.5	0.5	02/11/10	1,600	13,000	
		AC13-02-5.5	5.5	03/03/10	1,100 J-	3,700	
		AC13-05	0.5	07/21/10	<4.7 UJ	35	
		AC13-06	0.5	07/21/10	1,300	3,400	lead (480)
		AC13-B1-1.0	1	03/06/12	110	180	
		AC13-B1-5.0	5	03/06/12	92	120	
		AC13-B1-10.0	10	03/06/12	180J+	250	
		AC13-B1-13.0	13	03/06/12	160J	200	
		AC13-B2-1.0	1	03/05/12	7.4J-	24	
		AC13-B2-5.0	5	03/05/12	2.7J-	8.0	
		AC13-B2-10.0	10	03/05/12	6.3J-	12	
		AC13-B3-1.0	1	03/06/12	1,400	3500	arsenic (16)
		Dup (AC13a-B1)	1	03/06/12	1,300	2800	arsenic (12)
		AC13-B3-5.0	5	03/06/12	1,200	1600	
		AC13-B3-10.0	10	03/06/12	4.2J-	130	
		AC13-B4-1.0	1	03/05/12	4.8J-	13	
		AC13-B4-5.0	5	03/05/12	6.1J-	16	
		AC13-B4-10.0	10	03/05/12	4.3J-	9.0	
		AC13-B5-1.0	1	03/05/12	13J-	18	
		AC13-B5-5.0	5	03/05/12	6.3J-	16	
		AC13-B5-10.0	10	03/05/12	77J-	76	
		AC13-B8-4.0	4	06/19/12	4.2J-	27.0	
		AC13-B8-6.0	6	06/19/12	5.7J-	29	
		AC13-B8-10.0	10	06/19/12	4.0J-	20	
		Dup (AC13-A8)	10	06/19/12	4.8J-	19	
		AC13-B8-15.0	15	06/19/12	5.3J-	9.2	
		AC13-B8-20.0	20	06/19/12	2.2J-	10	
		AC13-B9-4.0	4	06/19/12	5.1J-	21	
		AC13-B9-6.0	6	06/19/12	4.1J-	27	
		AC13-B9-10.0	10	06/19/12	0.46J	17	
		AC13-B9-15.0	15	06/19/12	3.1J-	11	
		AC13-B9-20.0	20	06/19/12	4.7J-	9.8	
	Plating Line 7	CC-23-10	10	Clayton, 2006	<0.5	11.5	
		CC-24-15	15	Clayton, 2006	<0.5	14.0	
		AC13-03-0.5	0.5	02/11/10	<3.5	17	
		AC13-04-0.5	0.5	02/11/10	<4.0	21	
		AC13-B6-1.0	1	03/06/12	9.2J-	29	
		AC13-B6-5.0	5	03/06/12	6.9J-	15	
		AC13-B6-10.0	10	03/06/12	4.1J-	9.2	
		AC13-B7-1.0	1	03/06/12	6.0J-	16	
		AC13-B7-5.0	5	03/06/12	7.1J-	13	
		Dup (AC13a-B1)	5	03/06/12	3.2J-	13	
		AC13-B7-10.0	10	03/06/12	1.6	7.2	

TABLE 5

CUMULATIVE RESULTS FOR HEXAVALENT CHROMIUM AND OTHER METALS IN SOIL SAMPLES

Crown City Plating Company

El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Area Designation	Plating Line	Sample ID	Sample Depth (feet)	Sample Date	Hexavalent Chromium	Chromium	Other Metals [1]
AOC 14		AC14-01-10	10.0	03/04/10	<4.4 UJ	16	
		AC14-01-15	15.0	03/04/10	<4.6 UJ	13	
		AC14-01-20	20.0	03/04/10	<3.5 UJ	5.7	
AOC 15		CC-1-15	15	Clayton, 2006	<0.5	11.0	
		CC-2-20	20	Clayton, 2006	NA	6.7	
		AC15-01-0.5	0.5	03/03/10	<4.1 UJ	26	
		AC15-01-4.5	4.5	03/03/10	<4.9 UJ	27	
		AC15-02-0.5	0.5	02/11/10	7.4	470	
		AC15-02-2.5	2.5	02/11/10	<3.9	46	
AOC 16		CC-34-9	9	Clayton, 2006	15.9	23.2	
		CC-35-8	8	Clayton, 2006	NA	19.0	
		AC15-02-2.5	2.5	02/11/10	<3.9	46	
		AC16-01-0.5	0.5	02/11/10	<3.4	26	
Southeast Parking Lot		SW1	0.5	03/08/12	3.7J-	35	
		SW2	0.5	03/08/12	3.8J-	28	
		Dup (SW2a)	0.5	03/08/12	4.4J-	29	
		SW3	0.5	03/08/12	4.6J+	28J	
		SW4	0.5	03/08/12	400J+	890J	lead (3,700J)
		SW4-2.0	2	06/19/12	6.1J-	26J-	
		SW4-5.0	5	06/19/12	6.2J-	25J-	
		SW4a-0.5	0.5	06/19/12	7.6J-	26J-	
		SW4b-0.5	0.5	06/19/12	3.7J	30J-	
		SW5	0.5	03/08/12	4.1J+	30J	
		SW6	0.5	03/08/12	4.1J+	28	
		SW7	0.5	03/08/12	3.4J+	39	
		SW8	0.5	03/08/12	110J+	510J	lead (1,900J)
		Dup (SWA1)	0.5	03/08/12	82J+	320J	lead (1,200J)
		SW8-2.0	2	06/19/12	49J-	770	lead (3,300J)
		Dup (SW8d-2.0)	2	06/19/12	95J-	230	lead (680J)
		SW8-5.0	5	06/19/12	5.5J-	26	
		SW8a-0.5	0.5	06/19/12	4.9J-	72	
		SW8b-0.5	0.5	06/19/12	5.8J-	78	
		SW9	0.5	03/08/12	3.7J+	75J	

Notes:

1. Other metals detected at concentrations exceeding screening levels noted below.
2. NA = Not Analyzed.
3. <4.0 = Not detected above the reporting limit shown.

dup = duplicate sample.

J- = Result is an estimate may be biased low.

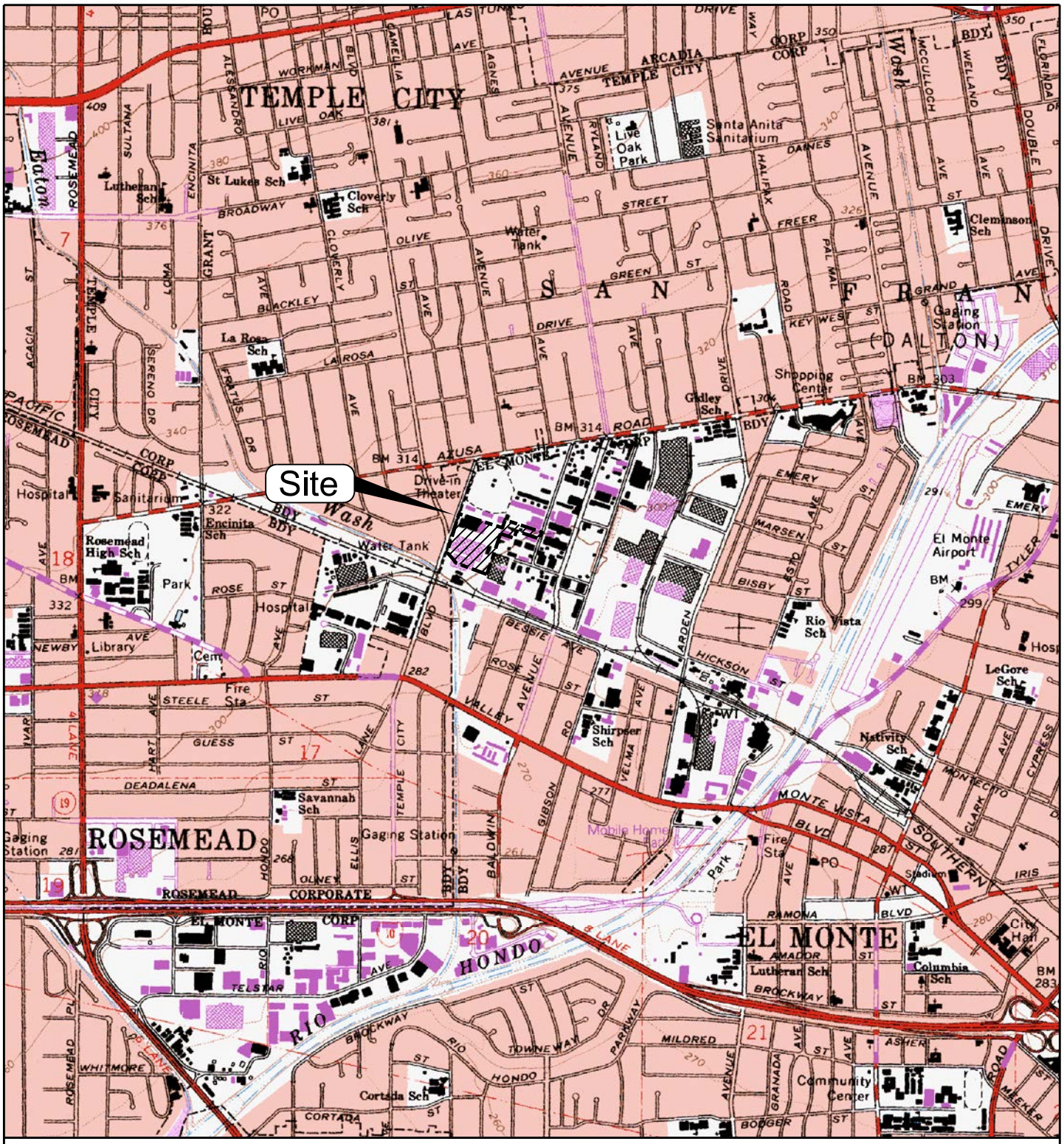
J = Results is an estimate.

J+ = Result is an estimate may be biased high.

≥ 5.6 mg/kg Exceeds U.S. EPA Regional Screening Levels (RSLs) for industrial soil (last updated in May 2012).

≥ 37 mg/kg Exceeds California Human Health Screening Levels (CHHSLs) for commercial/industrial use last updated in 2009.

FIGURES



Basemap modified from U.S.G.S. 7.5 minute Quadrangle Map El Monte 1966, California. Photo-revised 1981 and minor revision 1994.

Approximate Scale in Feet
0 1000 2000
0 300 600
Approximate Scale in Meters

SITE LOCATION MAP
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 1

9/20/2012 1:22:39 PM jim.depoorter
01-Site Location Map
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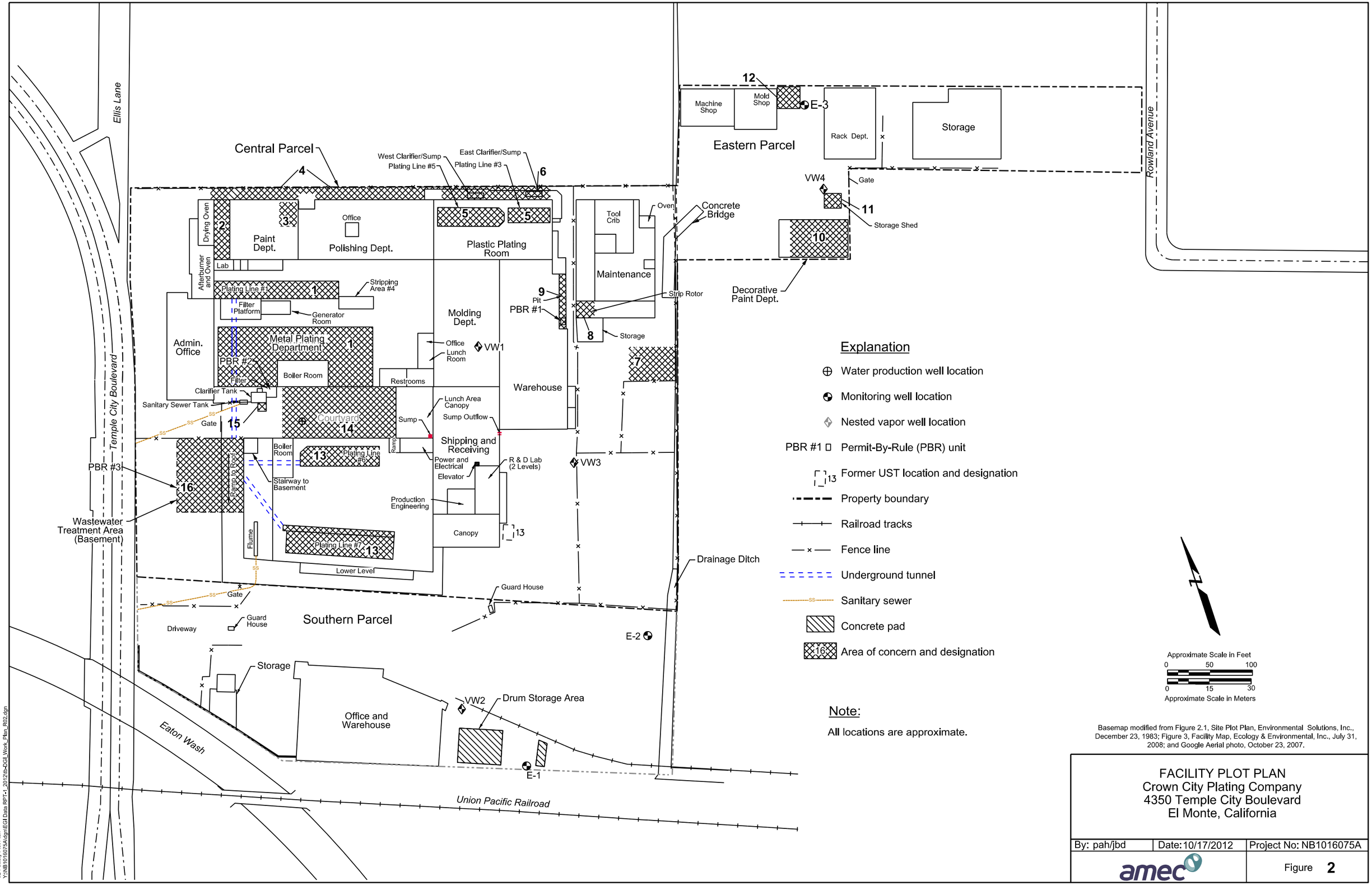

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

FACILITY PLOT PLAN
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 10/17/2012	Project No: NB1016075A
amec		Figure 2

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02-Facility Plot Plan
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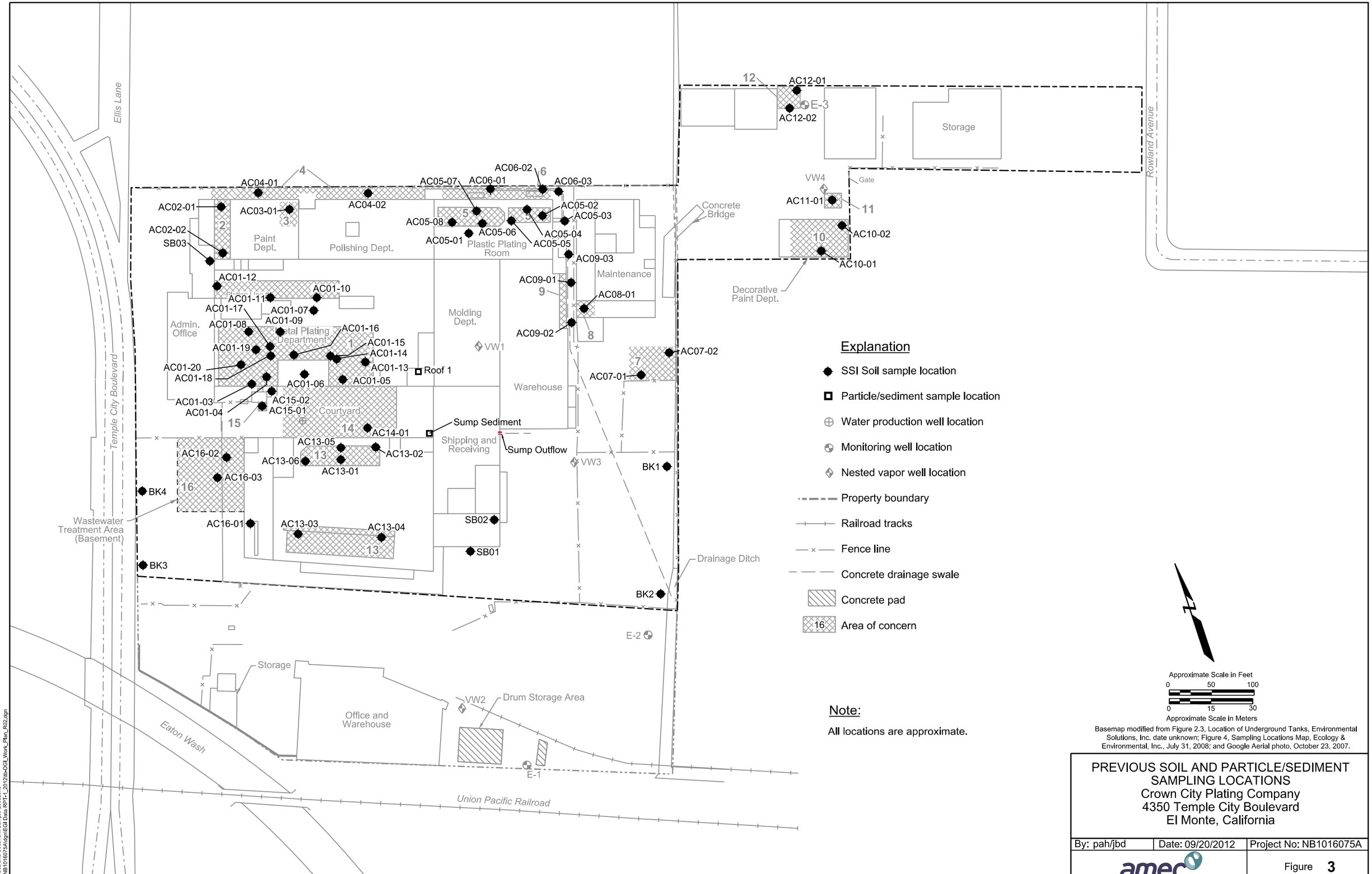

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PREVIOUS SOIL AND PARTICLE/SEDIMENT SAMPLING LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 3

9/20/2012 1:24:31 PM jim.deporter
03-Soil and Sediment Sample Locations
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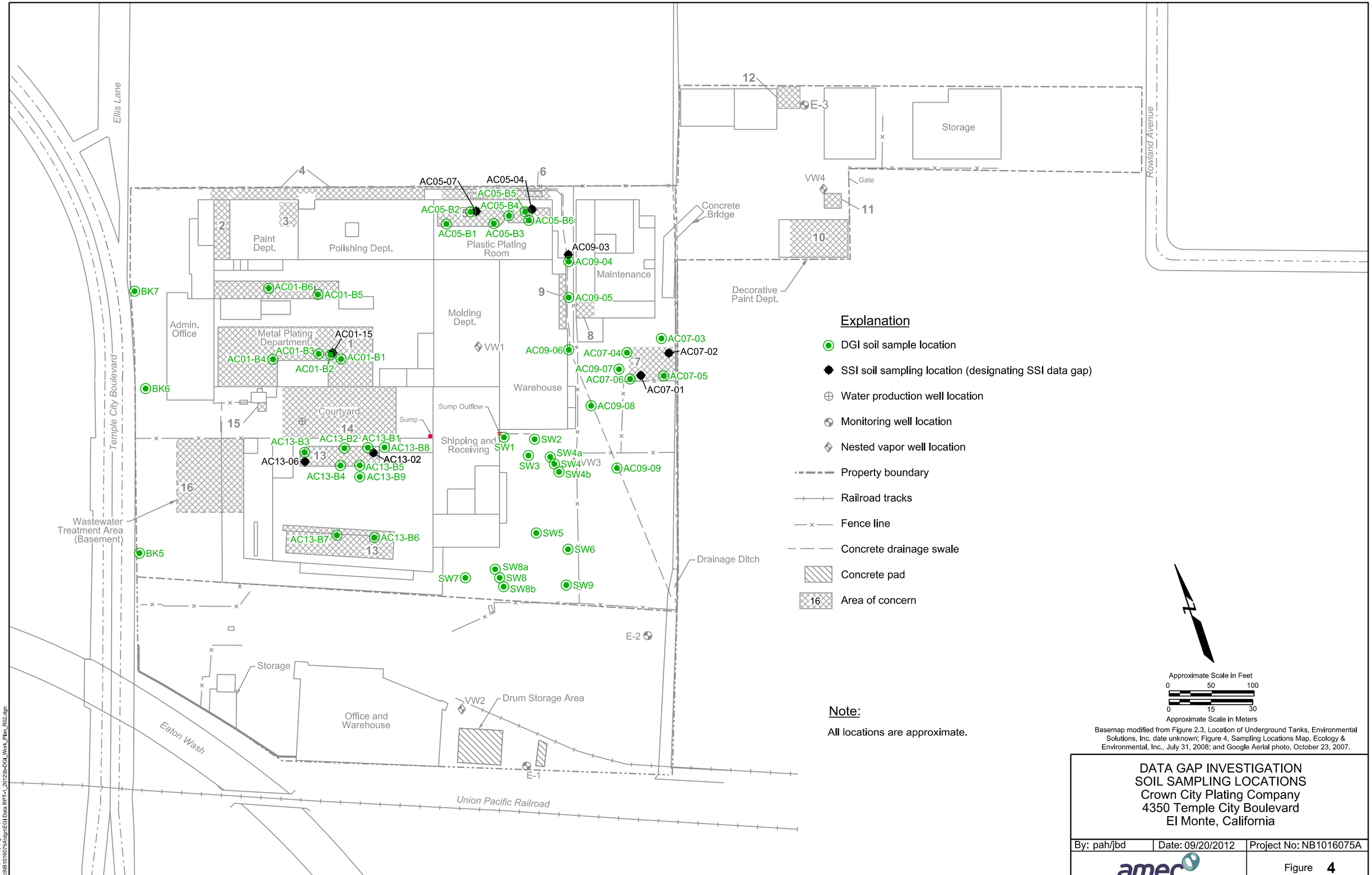

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

DATA GAP INVESTIGATION
SOIL SAMPLING LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 4

9/20/2012 1:09:11 PM jmcdepooter
04-Soil Sampling Locations=ORIGINAL
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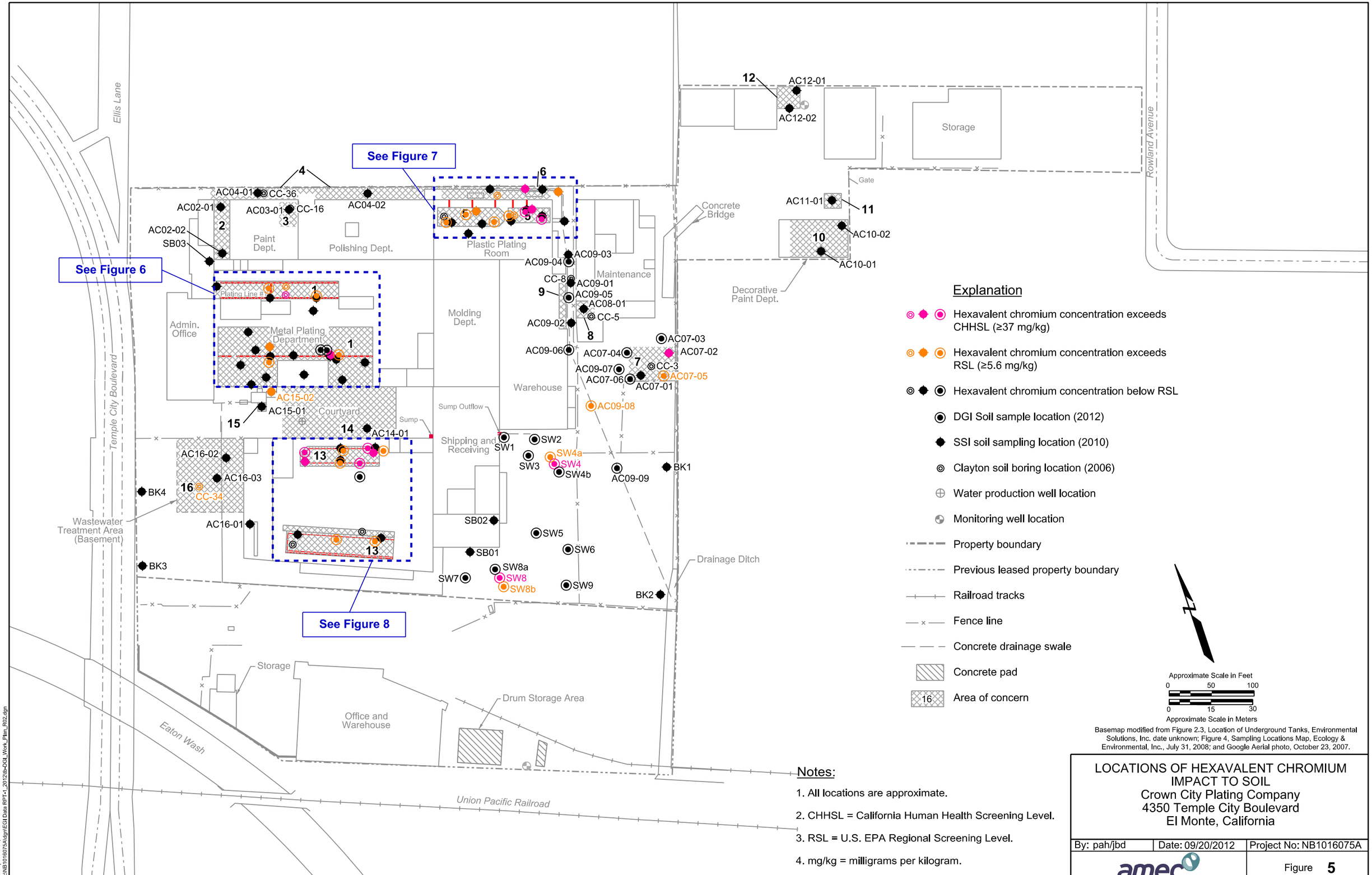

Notes:

1. All locations are approximate.
2. CHHSL = California Human Health Screening Level.
3. RSL = U.S. EPA Regional Screening Level.
4. mg/kg = milligrams per kilogram.

LOCATIONS OF HEXAVALENT CHROMIUM IMPACT TO SOIL
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 5

9/20/2012 3:21:33 PM jmudepporter
05-Impact to Soil
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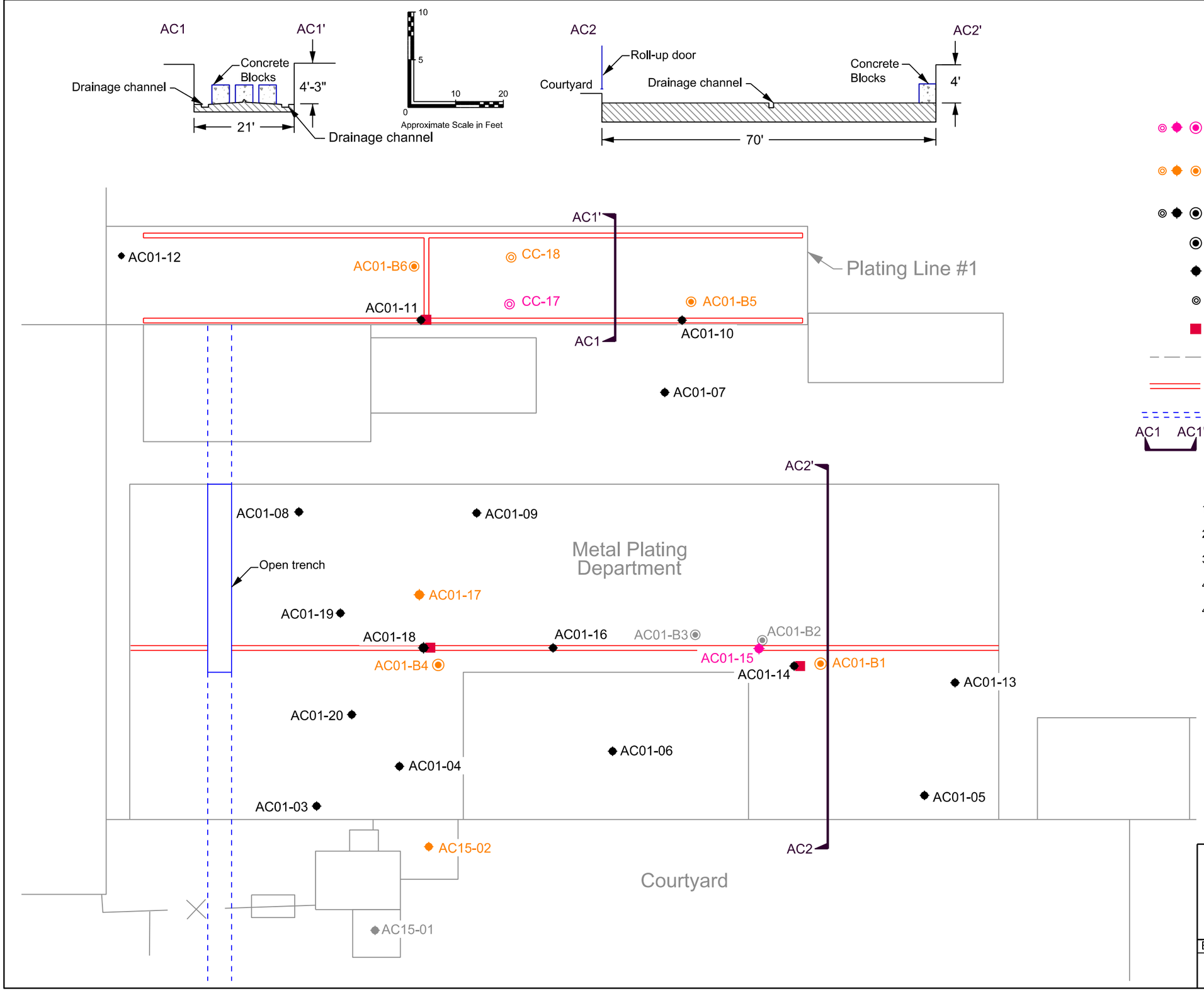

Explanation

- Hexavalent chromium concentration exceeds CHHSL (≥37 mg/kg)
- Hexavalent chromium concentration exceeds RSL (≥5.6 mg/kg)
- Hexavalent chromium concentration below RSL
- DGI Soil sample location (2012)
- SSI soil sampling location (2010)
- Clayton soil boring location (2006)
- Sump
- Concrete drainage swale
- Drainage channel
- Underground tunnel
- AC1 AC1' Cross section location

1. All locations are approximate.
2. CHHSL = California Human Health Screening Level.
3. RSL = U.S. EPA Regional Screening Level.
4. mg/kg = milligrams per kilogram.
4. Samples AC01-11, AC01-14 and AC01-18 collected from bottom of sump.

Approximate Scale in Feet
0 10 20
0 3 6
Approximate Scale in Meters

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

HEXAVALENT CHROMIUM IMPACT TO SOIL IN METAL PLATING DEPT. AND PLATING LINE 1
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 6

9/20/2012 1:19:43 PM jim.depoorter
06-Plating Line 1_Metal Dept
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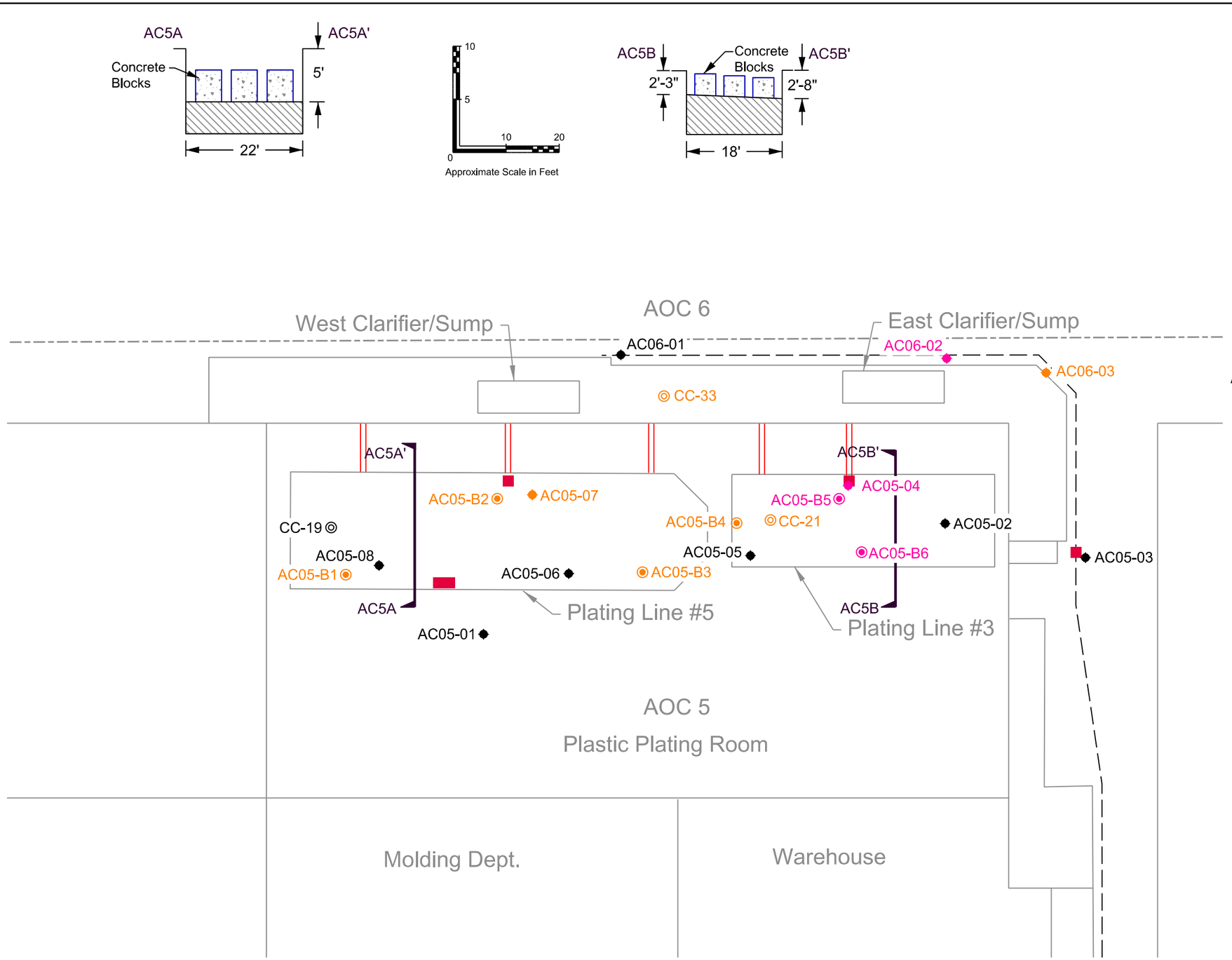

Explanation

- Hexavalent chromium concentration exceeds CHHSL (≥37 mg/kg)
- Hexavalent chromium concentration exceeds RSL (≥5.6 mg/kg)
- Hexavalent chromium concentration below RSL
- DGI Soil sample location (2012)
- SSI soil sampling location (2010)
- Clayton soil boring location (2006)
- Sump
- Concrete drainage swale
- Drainage channel
- AC5A AC5A' Cross section location
- Property boundary

Notes:

1. All locations are approximate.
2. CHHSL = California Human Health Screening Level.
3. RSL = U.S. EPA Regional Screening Level.
4. mg/kg = milligrams per kilogram.

Approximate Scale in Feet
0 10 20
0 3 6
Approximate Scale in Meters

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

HEXAVALENT CHROMIUM IMPACT TO SOIL IN PLATING LINES 3 AND 5 AND AOC 6
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 7

9/20/2012 4:17:19 PM jm.depoorter
07-4Plating Lines 3 + 5
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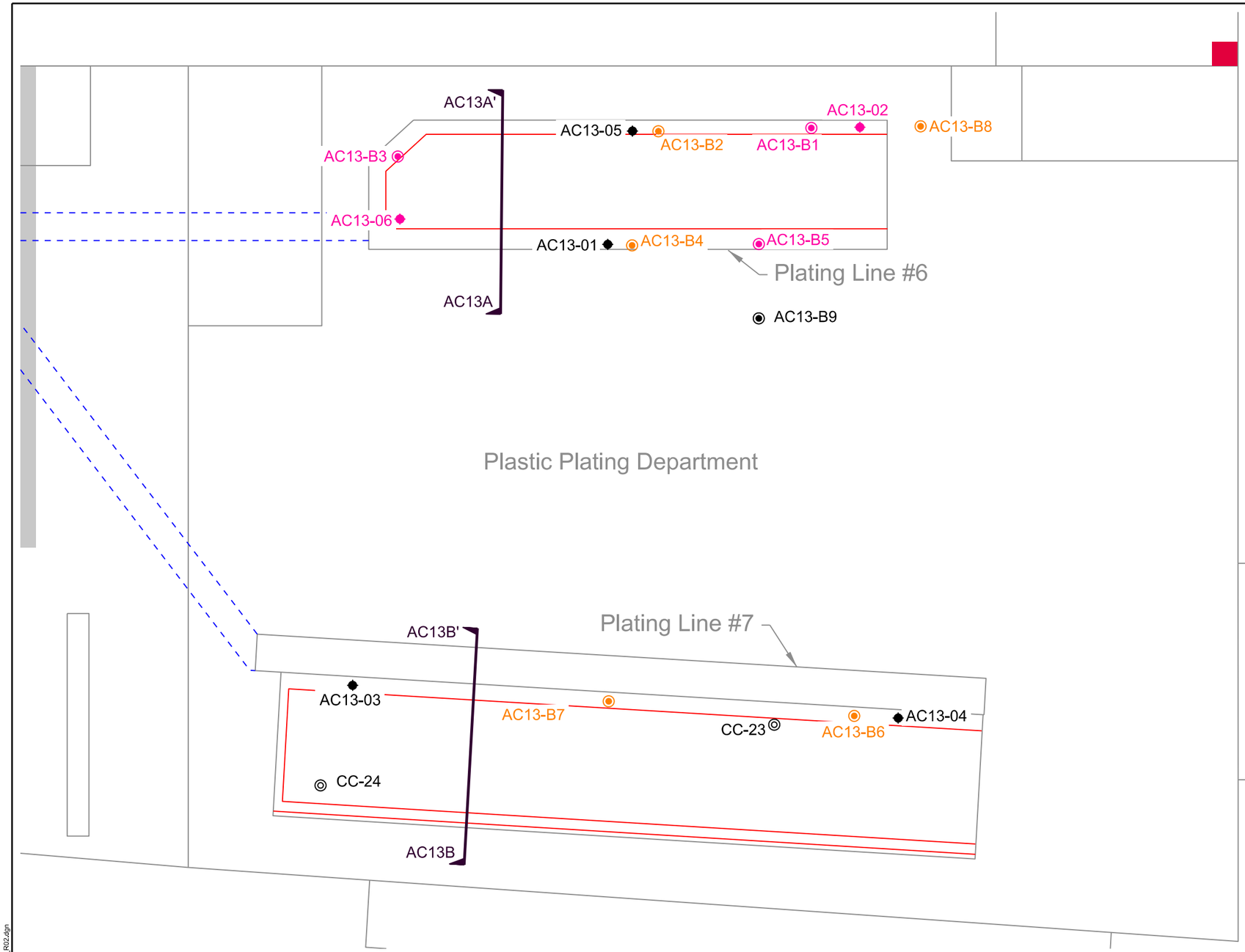
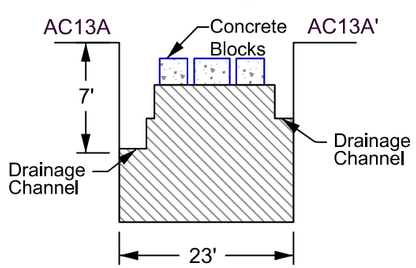


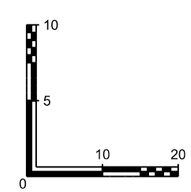
Explanation

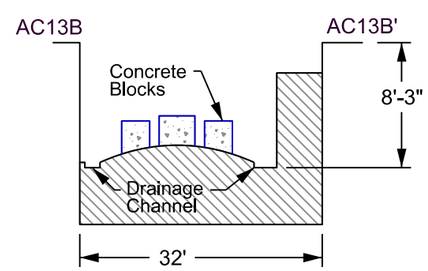
- Hexavalent chromium concentration exceeds CHHSL (≥37 mg/kg)
- Hexavalent chromium concentration exceeds RSL (≥5.6 mg/kg)
- Hexavalent chromium concentration below RSL
- DGI Soil sample location (2012)
- SSI soil sampling location (2010)
- Clayton soil boring location (2006)
- Sump
- Concrete drainage swale
- Drainage channel
- Underground tunnel
- AC13A AC13A' Cross section location

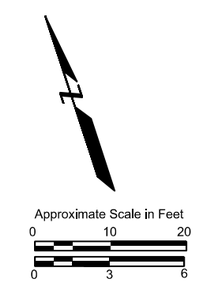
Notes:

1. All locations are approximate.
2. CHHSL = California Human Health Screening Level.
3. RSL = U.S. EPA Regional Screening Level.
4. mg/kg = milligrams per kilogram.







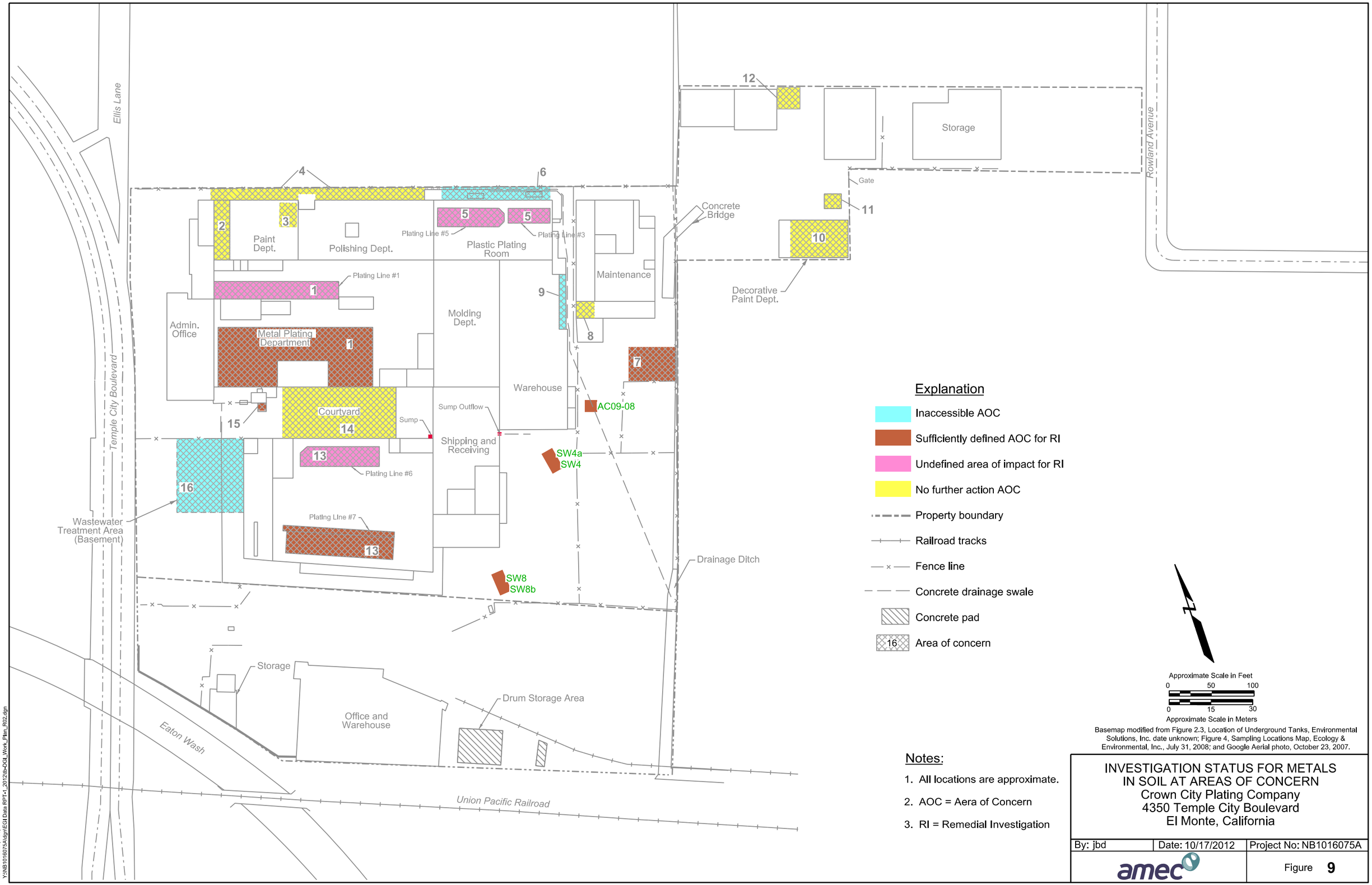


Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

HEXAVALENT CHROMIUM IMPACT TO SOIL
IN PLATING LINES 6 AND 7
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 8

9/20/2012 4:15:40 PM jim.deposorter
08-Plating Lines 6 - 7
Y:\NB1016075A\dgn\EGI Data RPT-1_2012\b-DGI_Work_Plan_R02.dgn



Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

Notes:

1. All locations are approximate.
2. AOC = Aera of Concern
3. RI = Remedial Investigation

INVESTIGATION STATUS FOR METALS IN SOIL AT AREAS OF CONCERN
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: jbd	Date: 10/17/2012	Project No: NB1016075A
amec		Figure 9

10/18/2012 1:33:34 PM jim.dsporter
09-AOC Metal in Soil
Y:\NB1016075A\dgn\EGI Data RPT-1_2012\b-DGI_Work_Plan_R02.dgn

APPENDIX A

Soil, Soil Gas, Water, and Building Materials Sample Result Summary Tables and Figures (AMEC, 2010a; 2010b)

TABLES

SSI Report (AMEC, 2010a)

TABLE 1

SOIL AND SEDIMENT SAMPLE DESCRIPTIONS AND ANALYSES
Crown City Plating Company
El Monte, California

Area Designation	Sample ID	Sample Location	Sample Depth (feet)	Sample Date	VOCs	SVOCs	Cyanide	pH	TPH-d/mo	metals	Hexavalent Chromium	Description
AOC 1 Metal Plating Area	AC01-01-0.5	Plating Line 1, west end	0.5	--								Plating Line 1 was under water at time of sampling. Sample AC01-20 collected July 21, 2010.
	AC01-02-0.5	Plating Line 1, east end	0.5	--								Plating Line 1 was under water at time of sampling. Sample AC01-17 collected July 21, 2010.
	AC01-03-0.5	Metal Plating Department	0.5	2/11/2010			X		X	X	X	Right of western entrance to Metal Plating Department. Sample location was selected based on etching of the concrete flooring. Concrete floor is approximately 1.5 feet lower than ground surface at courtyard.
	AC01-04-0.5	Metal Plating Department	0.5	2/11/2010		X	X			X	X	Right of western entrance to Metal Plating Department near wall with boiler room.
	AC01-05-0.5	Metal Plating Department	0.5	2/12/2010			X			X	X	Right of eastern entrance to Metal Plating Department. Sample location was selected based on etching in concrete flooring. Concrete floor is approximately 1.5 feet lower than ground surface at courtyard.
	AC19-01-0.5	Duplicate sample of AC01-05-0.5					X			X	X	
	AC01-06-0.5	Boiler Room	0.5	2/11/2010			X			X	X	Approximate center of the boiler room. Sample location was selected based on etching in concrete flooring. Concrete floor is approximately 1.5 feet lower than ground surface at courtyard.
	AC01-07-6	Between Plating Line 1 and Metal Plating Department	6.0	3/4/2010		X	X		X	X	X	Approximate center of concrete slab between Plating Line 1 and Metal Plating Department. The slab is 4' 2" above the bottom of Plating Line 1, 3' 11" above the bottom of Metal Plating Department, and 2' 9" above ground surface at courtyard.
	AC01-08-0.5	Metal Plating Department	0.5	3/5/2010						X	X	Northwest corner of Metal Plating Department between concrete columns. Sample location was selected based on etching in the concrete.
	AC01-09-0.5	Metal Plating Department	0.5	3/5/2010						X	X	Northwest corner of Metal Plating Department between concrete columns. Sample location was selected based on etching in the concrete and a joint between concrete slabs.
	AC01-10	Plating Line 1	0.5	7/21/2010						X	X	Eastern end of Plating Line 1, inside the brick-lined drainage channel.
	AC01-11	Plating Line 1	0.5	7/21/2010						X	X	Middle part of the Plating Line 1, at bottom of a sump inside the brick-lined drainage channel. The sump bottom is also brick lined.
	AC01-12	Plating Line 1	0.5	7/21/2010						X	X	Western end of Plating Line 1.
	AC01-12D	Duplicate sample of AC01-12								X	X	
	AC01-13	Metal Plating Department	0.5	7/21/2010						X	X	Western end of Metal Plating Department. Sample location selected within the etched concrete.
	AC01-14	Metal Plating Department	0.5	7/21/2010						X	X	Bottom of a sump in the eastern portion of Metal Plating Department.
	AC01-15	Metal Plating Department	0.5	7/21/2010						X	X	In the eastern portion of the Metal Plating Department, inside the brick-lined drainage channel. Bricks missing at the sample location.
	AC01-16	Metal Plating Department	0.5	7/21/2010						X	X	In the middle portion of the Metal Plating Department, inside the brick-lined drainage channel. Bricks missing at the sample location.
	AC01-17	Metal Plating Department	0.5	7/21/2010						X	X	In the middle portion of the Metal Plating Department. Sample location was selected based on etching of the concrete flooring.
	AC01-18	Metal Plating Department	0.5	7/21/2010						X	X	In the middle portion of the Metal Plating Department, at bottom of a sump inside the brick-lined drainage channel. Some bricks missing at the sample location.
	AC01-19	Metal Plating Department	0.5	7/21/2010						X	X	Near western entrance of the Metal Plating Department. Sample location in etched concrete.
	AC01-20	Metal Plating Department	0.5	7/21/2010						X	X	Near western entrance of the Metal Plating Department. Sample location in etched concrete.
AOC 2 Paint Shop Room	AC02-01-0.5	Paint Shop Room (north side)	0.5	2/12/2010		X	X		X	X	X	Near the west side wall of Paint Department, the northern location.
	AC02-02-0.5	Paint Shop Room (south side)	0.5	2/12/2010		X	X			X	X	Near the west side wall of Paint Department, the southern location.
AOC 3 Metal Parts Storage Room	AC03-01-0.5	Metal Parts Storage Room	0.5	2/12/2010		X	X		X	X	X	Northeast corner of the Paint Department.
	AC18-01-0.5	Duplicate sample of AC03-01-0.5				X	X		X	X	X	
AOC 4 Alleyway	AC04-01-0.5	Alleyway (west side)	0.5	2/11/2010		X	X		X	X	X	In alleyway north of Paint Department, outside the northern building.
	AC04-02-0.5	Alleyway (east side)	0.5	2/11/2010		X	X			X	X	In alleyway north of Polishing Department, outside the northern building.

TABLE 1

SOIL AND SEDIMENT SAMPLE DESCRIPTIONS AND ANALYSES
Crown City Plating Company
El Monte, California

Area Designation	Sample ID	Sample Location	Sample Depth (feet)	Sample Date	VOCs	SVOCs	Cyanide	pH	TPH-d/mo	metals	Hexavalent Chromium	Description
AOC 5 Plastic Plating Room	AC05-01-6	South of Plating Line 5	6.0	3/4/2010			X			X	X	Sample location was originally planned at the bottom of Plating Line 5. The area was under water at time of sampling so location moved to concrete slab south of plating line The concrete slab is 4' 9" above bottom of the plating line.
	AC05-02-0.5	Plating Line 3	0.5	3/4/2010		X	X		X	X	X	Sample location was originally planned at the bottom of Plating Line 3. The deepest portion of area was under water at time of sampling so location was moved to the center of the plating line.
	AC05-03-5.5	Catch basin outside Bldg, east of Plastic Plating Room	5.5	3/4/2010						X	X	The catch basin outside the northern building and east of Plating Line 3 was added to the investigation. The catch basin, full of water, was 5' deep relative to ground surface. The catch basin also collected overflow from east clarifier/sump in AOC 6.
	AC05-04	Plating Line 3	0.5	7/21/2010						X	X	Central portion of Plating Line 3. Sample location at bottom of shallow sump. The sump was located below fluid delivery channel connecting to AOC 6. The concrete was etched.
	AC05-05	Plating Line 3	0.5	7/21/2010						X	X	Southwestern corner of Plating Line 3. Sample location in the etched concrete.
	AC05-06	Plating Line 5	0.5	7/21/2010						X	X	Southern portion of the Plating Line 5. Sample location in etched concrete.
	AC05-07	Plating Line 5	0.5	7/21/2010						X	X	Northern portion of the Plating Line 5. Sample location in etched concrete.
	AC05-08	Plating Line 5	0.5	7/21/2010						X	X	Western portion of the Plating Line 5. Sample location in etched concrete.
	AC05-08D	Duplicate sample of AC05-08								X	X	
AOC 6 Sump Area	AC06-01-0.5	Sump Area (West Clarifier/Sump)	0.5	2/12/2010		X	X		X	X	X	Sample location in the asphalt between the west clarifier/sump and the fence. Bottom of the sump was 4.7 feet below ground surface.
	AC06-01-5.5	Sump Area (West Clarifier/Sump)	5.5			X	X		X	X	X	
	AC06-02-0.5	Sump Area (East Clarifier/Sump)	0.5	2/12/2010			X			X	X	Sample location in the asphalt between the East Clarifier/Sump and fence. Bottom of the sump was 3.75 feet below ground surface.
	AC06-02-4.5	Sump Area (East Clarifier/Sump)	4.5				X			X	X	
	AC06-03	East of sump Area (East Clarifier/Sump)	0.5	7/21/2010						X	X	Sample location in the drainage swale east of East Clarifier/Sump. Concrete is slightly etched.
	AC06-03D	Duplicate sample of AC06-03								X	X	
AOC 7 Backyard Haz. Waste Storage Area	AC07-01-0.5	Backyard Hazardous Waste Storage Area	0.5	2/11/2010		X	X		X	X	X	Southwest corner of Hazardous Waste Storage Area.
	AC07-02-0.5	Backyard Hazardous Waste Storage Area	0.5	2/11/2010			X			X	X	Northeast corner of Hazardous Waste Storage Area.
	AC07-02-5	Backyard Hazardous Waste Storage Area	5.0	3/5/2010			X			X	X	Northeast corner of Hazardous Waste Storage Area. This deeper sample was added because shallow sample AC07-02-0.5 reported high concentrations of arsenic and hexavalent chromium.
AOC 8 Metal Stripping Room	AC08-01-5.5	Sump in Metal Stripping Room	4.5	3/4/2010		X	X		X	X	X	Angled boring west of sump, near former strip rotor. Sample depth was calculated at 4.5 feet.
AOC 9 Spent Chem. Holding Tanks	AC09-01-0.5	Northeast side of former holding tank area	0.5	2/11/2010								Northeast of the former holding tank area. The bottom of tank pit (filled with water) was 3 feet below ground surface at this location.
	AC09-01-3.5		3.5			X	X		X	X	X	
	AC09-02-0.5	Southeast side of former holding tank area	0.5	2/12/2010								Southeast of the former holding tank area. The bottom of tank pit (filled with water) was 3 feet below ground surface at this location.
	AC09-02-3.5		3.5				X			X	X	
	AC09-03	North of former holding tank area	0.5	7/21/2010						X	X	Outside the Plastic Plating Room, northeast of former holding tank area. Sample location in the drainage swale at etched concrete and joint between concrete slabs.

TABLE 1

SOIL AND SEDIMENT SAMPLE DESCRIPTIONS AND ANALYSES
Crown City Plating Company
El Monte, California

Area Designation	Sample ID	Sample Location	Sample Depth (feet)	Sample Date	VOCs	SVOCs	Cyanide	pH	TPH-d/mo	metals	Hexavalent Chromium	Description
AOC 10 Paint Department	AC10-01-0.5	Paint Department	0.5	2/12/2010		X	X		X	X	X	Eastern parcel: near the south wall of the Decorative Paint Department, inside the building.
	AC20-01-0.5	Duplicate sample of AC10-01-0.5				X	X		X	X	X	
	AC10-02-0.5	Paint Department	0.5	2/12/2010			X			X	X	Eastern parcel: near the northeast corner of the Decorative Paint Department, inside the building.
AOC 11 Storage Shed	AC11-01-0.5	Storage Shed	0.5	2/12/2010		X	X		X	X	X	Eastern parcel: inside the storage shed.
AOC 12 Mold Shop Room	AC12-01-5	Vault east of Mold Shop Room	5.0	2/12/2010		X	X		X	X	X	Eastern parcel: north of utility vault. Bottom of vault was 4.5' below ground surface at sampling location.
	AC12-02-5	Vault east of Mold Shop Room	5.0	2/12/2010			X			X	X	Eastern parcel: south of utility vault. Bottom of vault was 4.5' below ground surface at sampling location.
AOC 13 Plastic Plating Department	AC13-01-0.5	pre-Plating Line 6, center	0.5	2/11/2010		X	X		X	X	X	Central location at the bottom of pre-Plating Line 6. Bottom of the pre-plating line is 9' 2" below the concrete slab (south of the area) and 11' 4" below the ground surface at courtyard. Sample location was selected in the southern drainage channel.
	AC13-02-0.5	pre-Plating Line 6, east end	0.5	2/11/2010			X			X	X	Eastern location at the bottom of pre-Plating Line 6. Bottom of the pre-plating line was 5' 5" below the concrete slab (south of the area) and 7' 7" below the ground surface at courtyard. Sample location was selected at the northeast corner of the pre-Plating line.
	AC03-02-5.5	pre-Plating 6, east end	5.5	3/3/2010						X	X	Same location as AC13-02-0.5 (mislabeled AC03) at depth of 5.5 feet. This deeper sample was added because shallow sample AC13-01-0.5 reported high concentration of hexavalent
	AC13-03-0.5	Plating Line 7, west end	0.5	2/11/2010		X	X		X	X	X	Western location at the bottom of Plating Line 7. Bottom of the plating line was 8' 5" below the concrete slab (south of the area) and 7' below the asphalt to the east, outside the building. Sample location was selected in the northwest portion of the plating line in area of concrete staining and etching.
	AC13-04-0.5	Plating Line 7, east end	0.5	2/11/2010			X			X	X	Eastern location at the bottom of Plating Line 7. Bottom of the plating line was 8' 5" below the concrete slab (south of the area) and 7' below the asphalt to the east, outside the building. Sample location was selected in the northeastern portion of the plating line in area of concrete staining and etching.
	AC13-05	pre-Plating Line 6, northern portion	0.5	7/21/2010						X	X	Northern location at the bottom of pre-Plating Line 6 inside the drainage channel.
	AC13-06	pre-Plating Line 6, southwest corner	0.5	7/21/2010						X	X	Southwestern corner at bottom of pre-Plating Line 6 adjacent to water-filled sump and immediately south of tunnel to the Wastewater Treatment Area.
AOC 14 Underground Storage Tank	AC14-01-10	Former nitric acid underground storage tank	10	3/4/2010			X	X		X	X	Soil boring in the courtyard near former nitric acid underground storage tank.
	AC14-01-15		15				X	X		X	X	
	AC14-01-20		20			X	X	X		X	X	
AOC 15 Drum Wash Area	AC15-01-0.5	Drum Wash Area	0.5	3/3/2010		X	X		X	X	X	South of the sump in Drum Wash Area. Bottom of sump was 4' below ground surface.
	AC15-01-4.5		4.5				X			X	X	
	AC15-02-0.5	Filter room inside bldg	0.5	2/11/2010			X			X	X	Inside small room east of Drum Wash Area. The sample location was next to small 2-foot deep sump/vault inside the room.
	AC15-02-2.5		2.5				X			X	X	
AOC 16 Wastewater Treatment Area	AC16-01-0.5	Wastewater Treatment Area, south of basement	0.5	2/11/2010		X	X	X	X	X	X	East of ramp to the roof of the southern building. Sample location was at ground surface level west of the flume.
	AC16-02	Basement - Wastewater Treatment Area	0.5	7/21/2010						X	X	Approximately 10 feet away from the bottom of stairs. Sample location in the concrete joint and etched concrete.
	AC16-03	Basement - Wastewater Treatment Area	0.5	7/21/2010						X	X	Approximately 20 feet away from the bottom of stairs. Sample location near the chrome holding tanks. Concrete at sample location slightly etched.

TABLE 1

SOIL AND SEDIMENT SAMPLE DESCRIPTIONS AND ANALYSES
Crown City Plating Company
El Monte, California

Area Designation	Sample ID	Sample Location	Sample Depth (feet)	Sample Date	VOCs	SVOCs	Cyanide	pH	TPH-d/mo	metals	Hexavalent Chromium	Description
Former UST 13 Dispenser	SB1-1	Soil samples from SB01	1.0	3/4/2010	X				X [1]			In the asphalt south of the loading dock.
	SB1-5		5.0		X				X [1]			
	SB1-10		10		X				X [1]			
	SB1-15		15		X				X [1]			
	SB2-1	Soil samples from SB02	1.0	3/4/2010	X				X [1]			In the concrete pad at the loading dock raised 4 feet about ground surface.
	SB2-5		5.0		X				X [1]			
	SB2-10		10		X				X [1]			
	SB2-15		15		X				X [1]			
Tank Area	SB03	Afterburner and Oven room	0.5	7/21/2010						X	X	In the drainage channel around tank. Sample location was selected based on staining and etching of the concrete in the drainage channel.
Roof Particle	Roof 1	Top of northern building	--	7/22/2010							X	Top of the northern building near former ventilation system.
Sump Sediment	Sump Sediment	Sump in southeast corner of Courtyard	--	3/5/2010						X	X	In bottom of sump located in southeast corner of Courtyard. Sump appear to collect surface water run-off from this portion of the site.
Background	BG1	background metals	2.0	3/4/2010						X	X	Southeast corner of the central parcel, approximately 150' north of BG2.
	BG2	background metals	2.0	3/4/2010						X	X	Southeast corner of the central parcel.
	BG3	background metals	2.0	3/4/2010						X	X	Southwest corner of the central parcel.
	BG4	background metals	2.0	3/4/2010						X	X	Southwest corner of the central parcel, approximately 85' north of BG3.

1. sample analyzed for TPH as gasoline.

TABLE 2

SOIL AND SEDIMENT SAMPLE RESULTS FOR METALS[1]

Crown City Plating Company

El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 1	AC01-03-0.5	0.5	02/11/10	<2.0[2]	3.5	75	0.54	<0.40	23	<4.0	8.2	68	9.4	0.057	<2.0	21	<5.0	<2.0	<5.0	48	90
	AC01-04-0.5	0.5	02/11/10	<2.0	3.9	76	0.54	<0.40	25	<4.1	13	38	9.8	0.100	<2.0	14	<5.0	<2.0	<5.0	50	60
	AC01-05-0.5	0.5	02/12/10	<4.0	<4.0	60	<0.80	<0.80	16 J-	<4.9 UJ	7.9	29	6.6	0.074	<4.0	14 J-	<10	<4.0	<10	42	50
	AC19-01-0.5[3]	0.5	02/12/10	<4.0	<4.0	61	<0.80	<0.80	16 J-	<4.2 UJ	7.9	95	7.2	0.085	<4.0	28 J-	<10	<4.0	<10	41	56
	AC01-06-0.5	0.5	02/11/10	<2.0	3.5	59	0.54	<0.40	23	<4.7	9.6	34	6.8	0.160	<2.0	14	<5.0	<2.0	<5.0	44	52
	AC01-07-6	6.0	03/04/10	<4.0	4.7	100	0.99	<0.80	26	<4.3 UJ	12	53	8.6	0.083	<4.0	18	<10	<4.0	<10	63	73
	AC01-08-0.5	0.5	03/05/10	<4.0	4.8	67	<0.80	<0.80	27	<4.2 UJ	8.3	280	10	0.046	<4.0	110	<10	<4.0	<10	47	58
	AC01-09-0.5	0.5	03/05/10	<2.0	2.6	51	0.60	<0.40	16	<4.4 UJ	9.0	27	6.2	0.100	<2.0	9.8	<5.0	<2.0	<5.0	40	45
	AC01-10	0.5	07/21/10	<4.0	<4.0	71	<0.80	<0.80	26	<3.7 UJ	35	38	6.5	0.150	5.3	16	<10	<4.0	<10	46	54
	AC01-11	0.5	07/21/10	<20	<20	46	<4.0	<4.0	20	<4.3 UJ	12	59	<20	0.049	<20	7,100	<50	<20	<50	38	150
	AC01-12	0.5	07/21/10	<4.0	<4.0	62	<0.80	<0.80	19	<4.8 UJ	10	33	6.8	0.099	<4.0	16	<10	<4.0	<10	44	52
	AC01-12D[3]	0.5	07/21/10	<4.0	<4.0	64	<0.80	<0.80	20	<4.8 UJ	14	36	6.7	0.100	<4.0	19	<10	<4.0	<10	45	56
	AC01-13	0.5	07/21/10	<4.0	4.2	73	<0.80	<0.80	28	<4.5 UJ	11	39	8.1	0.097	10	15	<10	<4.0	<10	52	60
	AC01-14	0.5	07/21/10	<4.0	<4.0	67	<0.80	<0.80	24	<4.7 UJ	10	34	5.4	0.061	6.0	14	<10	<4.0	<10	46	51
	AC01-15	0.5	07/21/10	<4.0	<4.0	1,800	<0.80	<0.80	3,200	120 J-	48	960	570	<0.013	200	1,600	<10	<4.0	<10	12	35
	AC01-16	0.5	07/21/10	<4.0	<4.0	73	<0.80	<0.80	23	<3.4 UJ	12	38	17	0.056	<4.0	22	<10	<4.0	<10	47	64
	AC01-17	0.5	07/21/10	<20	<20	170	<4.0	<4.0	300	7.1 J-	<8.0	6,800	160	0.100	<20	140	<50	<20	<50	48	280
	AC01-18	0.5	07/21/10	<4.0	<4.0	42	<0.80	<0.80	15	<4.9 UJ	7.0	870	<4.0	0.036	<4.0	320	<10	<4.0	<10	36	83
	AC01-19	0.5	07/21/10	<4.0	<4.0	71	<0.080	<0.80	21	<4.0 UJ	10	54	9.8	0.083	4.4	14	<10	<4.0	<10	50	60
	AC01-20	0.5	07/21/10	<4.0	<4.0	72	<0.80	<0.80	21	<4.4 UJ	9.5	170	7.3	0.130	<4.0	29	<10	<4.0	<10	48	57
AOC 2	AC02-01-0.5	0.5	02/12/10	<4.0	5.0	100	<0.80	<0.80	27 J-	<4.3 UJ	12	51	11	0.071	<4.0	21 J-	<10	<4.0	<10	63	80
	AC02-02-0.5	0.5	02/12/10	<4.0	5.1	92	<0.80	<0.80	25 J-	<4.2 UJ	11	46	12	0.055	<4.0	19 J-	<10	<4.0	<10	57	74
AOC 3	AC03-01-0.5	0.5	02/12/10	<4.0	5.0	100	<0.80	<0.80	26 J-	<4.2 UJ	12	51	13	0.074	8.4	20 J-	<10	<4.0	<10	62	79
	AC18-01-0.5[3]	0.5	02/12/10	<4.0	4.6	100	<0.80	<0.80	25 J-	<4.9 UJ	12	49	11	0.067	<4.0	20 J-	<10	<4.0	<10	59	77
AOC 4	AC04-01-0.5	0.5	02/11/10	<4.0	4.7	93	<0.80	<0.80	30	<4.7	12	120	9.4	0.089	5.1	68	<10	<4.0	<10	62	150
	AC04-02-0.5	0.5	02/11/10	<4.0	5.9	100	<0.80	<0.80	37	<5.0	13	100	12	0.043	6.3	31	<10	<4.0	<10	67	83
AOC 5	AC05-01-6	6.0	03/04/10	<4.0	<4.0	88	0.89	<0.80	29	<4.2 UJ	11	42	7.3	0.057	<4.0	16	<10	<4.0	<10	56	66
	AC05-02-0.5	0.5	03/04/10	<4.0	4.4	80	0.90	<0.80	44	<3.8 UJ	10	41	8.4	0.180	<4.0	15	<10	<4.0	<10	53	64
	AC05-03-5.5	5.5	03/04/10	<4.0	<4.0	64	<0.80	<0.80	19	<4.7 UJ	8.8	32	6.0	0.093	<4.0	13	<10	<4.0	<10	47	53
	AC5-04	0.5	07/21/10	<50	<50	310	<10	<10	15,000	160 J-	33	4,400	420	4.90	<50	25,000	<120	<50	<120	<62	1,100
	AC5-05	0.5	07/21/10	<4.0	4.5	84	<0.80	<0.80	22	<4.6 UJ	9.2	37	6.0	0.130	<4.0	14	<10	<4.0	<10	49	56
	AC5-06	0.5	07/21/10	<4.0	<4.0	85	<0.80	<0.80	24	<4.4 UJ	11	43	6.4	0.066	<4.0	16	<10	<4.0	<10	54	65
	AC5-07	0.5	07/21/10	<4.0	6.2	87	<0.80	<0.80	68	6.5 J-	170	580	55	0.076	5.6	150	<10	8.6	<10	23	40
	AC5-08	0.5	07/21/10	<4.0	<4.0	82	<0.80	<0.80	32	<4.9 UJ	15	42	7.5	0.063	<4.0	23	<10	<4.0	<10	53	64
	AC5-08D[3]	0.5	07/21/10	<4.0	<4.0	79	<0.80	<0.80	44	4.8 J-	20	41	8.2	0.092	4.2	34	<10	<4.0	<10	50	61
AOC 6	AC06-01-0.5	0.5	02/12/10	<4.0	4.3	100	<0.80	<0.80	39 J-	<4.7 UJ	15	53	9.0	0.059	<4.0	21 J-	<10	<4.0	<10	62	81
	AC06-01-5.5	5.5	02/12/10	<4.0	4.1	79	<0.80	<0.80	25 J-	<4.9 UJ	11	49	7.4	0.070	7.8	28 J-	<10	<4.0	<10	55	67
	AC06-02-0.5	0.5	02/12/10	<20	<20	110	<4.0	<4.0	4,200 J-	150 J-	11	300	25	0.370	<20	77 J-	<50	<20	<50	68	96
	AC06-02-4.5	4.5	02/12/10	<4.0	<4.0	85	<0.80	<0.80	410 J-	14 J-	11	91	7.5	0.100	<4.0	64 J-	<10	<4.0	<10	55	71
	AC06-03	0.5	07/21/10	<4.0	5.3	100	<0.80	<0.80	610	12	12	510	26	0.120	9.5	730	<10	<4.0	<10	56	290
	AC06-03D[3]	0.5	07/21/10	<4.0	5.7	94	<0.80	<0.80	1,100	6.3	14	700	42	0.120	6.6	820	<10	<4.0	<10	59	240
AOC 7	AC07-01-0.5	0.5	02/11/10	<4.0	6.5	110	<0.80	<0.80	84	<3.5	14	58	16	0.085	8.5	22	<10	<4.0	<10	70	93
	AC07-02-0.5	0.5	02/11/10	<8.0	130	130	<1.6	2.2	6,100	89	14	530	50	0.063	<8.0	210	<20	<8.0	<20	81	220
	AC07-02-5	5.0	03/05/10	<4.0	5.0	110	1.2	<0.80	28	<4.8 UJ	13	53	9.7	0.091	6.6	19	<10	<4.0	<10	64	76
AOC 8	AC08-01-5.5	5.5	03/04/10	<4.0	4.1	91	0.98	<0.80	25	<5.0 UJ	11	47	8.0	0.089	<4.0	17	<10	<4.0	<10	58	68
AOC 9	AC09-01-3.5	3.5	02/11/10	<4.0	5.0	100	<0.80	<0.80	44	<3.6	14	55	9.9	0.068	5.8	20	<10	<4.0	<10	68	82
	AC09-02-3.5	3.5	02/12/10	<4.0	4.4	86	<0.80	<0.80	50 J-	<4.8 UJ	10	61	19	0.088	<4.0	34 J-	<10	<4.0	<10	52	92
	AC09-03	0.5	07/21/10	<4.0	13	100	<0.80	<0.80	37	<4.7	16	67	18	0.100	5.9	34	<10	<4.0	<10	61	100

TABLE 2

SOIL AND SEDIMENT SAMPLE RESULTS FOR METALS[1]

Crown City Plating Company

El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 10	AC10-01-0.5	0.5	02/12/10	<4.0	4.6	110	<0.80	<0.80	23 J-	<3.5 UJ	18	51	37	0.072	<4.0	19 J-	<10	<4.0	<10	53	100
	AC20-01-0.5[3]	0.5	02/12/10	<4.0	4.6	93	<0.80	<0.80	23 J-	<3.7 UJ	10	55	54	0.066	<4.0	19 J-	<10	<4.0	<10	51	120
	AC10-02-0.5	0.5	02/12/10	<4.0	5.5	110	<0.80	<0.80	25 J-	<4.0 UJ	12	54	46	0.070	11	20 J-	<10	<4.0	<10	56	120
AOC 11	AC11-01-0.5	0.5	02/12/10	<4.0	4.7	120	<0.80	<0.80	25 J-	<4.3 UJ	12	53	15	0.060	4.4	20 J-	<10	<4.0	<10	59	96
AOC 12	AC12-01-5	5.0	02/12/10	<4.0	<4.0	76	<0.80	<0.80	21 J-	<4.6 UJ	9.8	39	6.5	0.058	<4.0	17 J-	<10	<4.0	<10	50	59
	AC12-02-5	5.0	02/12/10	<4.0	<4.0	75	<0.80	<0.80	21 J-	<4.7 UJ	9.6	40	6.4	0.065	4.5	16 J-	<10	<4.0	<10	51	56
AOC 13	AC13-01-0.5	0.5	02/11/10	<2.0	<2.0	39	<0.40	<0.40	27	<4.1	5.8	19	3.7	0.120	<2.0	8.0	<5.0	<2.0	<5.0	33	33
	AC13-02-0.5	0.5	02/11/10	<20	<20	85	<4.0	<4.0	13,000	1,600	14	190	<20	0.110	<20	52	<50	<20	<50	61	120
	AC03-02-5.5[4]	5.5	03/03/10	<4.0	<4.0	71	<0.80	<0.80	3,700	1,100 J-	11	150	8.1	0.150	5.0	23	<10	<4.0	<10	50	68
	AC13-03-0.5	0.5	02/11/10	<2.0	2.3	53	<0.40	<0.40	17	<3.5	7.8	27	4.6	0.049	<2.0	11	<5.0	<2.0	<5.0	45	45
	AC13-04-0.5	0.5	02/11/10	<2.0	3.3	67	0.52	<0.40	21	<4.0	11	32	6.1	0.085	<2.0	14	<5.0	<2.0	<5.0	50	55
	AC13-05	0.5	07/21/10	<4.0	<4.0	62	<0.80	<0.80	35	<4.7 UJ	21	38	7.3	0.052	<4.0	17	<10	<4.0	<10	45	55
	AC13-06	0.5	07/21/10	<4.0	<4.0	59	<0.80	<0.80	3,400	1,300	5.6	56	480	0.028	15	13	<10	<4.0	<10	32	19
AOC 14	AC14-01-10	10.0	03/04/10	<2.0	2.6	52	0.63	<0.40	16	<4.4 UJ	6.8	29	6.5	0.150	<2.0	11	<5.0	<2.0	<5.0	40	45
	AC14-01-15	15.0	03/04/10	<2.0	2.1	43	0.58	<0.40	13	<4.6 UJ	5.9	26	4.9	0.140	<2.0	8.4	<5.0	<2.0	<5.0	33	39
	AC14-01-20	20.0	03/04/10	<2.0	<2.0	21	<0.40	<0.40	5.7	<3.5 UJ	2.5	10	2.6	0.290	<2.0	3.1	<5.0	<2.0	<5.0	16	18
AOC 15	AC15-01-0.5	0.5	03/03/10	<4.0	4.0	93	1.0	<0.80	26	<4.1 UJ	11	46	22	0.082	4.9	18	<10	<4.0	<10	55	76
	AC15-01-4.5	4.5	03/03/10	<4.0	5.1	110	1.2	<0.80	27	<4.9 UJ	13	54	12	0.094	8.6	20	<10	<4.0	<10	63	80
	AC15-02-0.5	0.5	02/11/10	<8.0	<8.0	86	<1.6	<1.6	470	7.4	11	2,900	14	0.018	<8.0	1,400	<20	<8.0	<20	65	80
	AC15-02-2.5	2.5	02/11/10	<20	<20	110	<4.0	<4.0	46	<3.9	16	5,000	<20	0.013	<20	2,600	<50	<20	<50	75	140
AOC 16	AC16-01-0.5	0.5	02/11/10	<2.0	5.1	90	0.59	<0.40	26	<3.4	11	51	12	0.049	<2.0	18	<5.0	<2.0	<2.0	60	73
	AC16-02	0.5	07/21/10	<4.0	<4.0	29	<0.80	<0.80	39	4.0	9.9	45	6.0	0.055	<4.0	38	<10	<4.0	<10	21	29
	AC16-03	0.5	07/21/10	<4.0	<4.0	26	<0.80	<0.80	14	<4.9	22	22	<4.0	0.120	<4.0	7.3	<10	<4.0	<10	23	23
SB03	SB03-0.5	0.5	03/05/10	<8.0	<8.0	99	<1.6	<1.6	29	<4.6 UJ	14	730	12	0.082	<8.0	5,500	<20	<8.0	<20	59	80
Roof Particle (Roof 1)		NA	07/21/10	<10	<10	370	<2.0	3.7	5,800	<9.6	13	8,500	440	0.100	12	5,300	<25	<10	<25	40	5,300
Sump Sediment		NA	07/22/10	NA	NA	NA	NA	NA	NA	440	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Background	BG1	2.0	03/04/10	<4.0	4.2	100	1.1	<0.80	30	<4.6 UJ	12	50	8.9	0.120	6.8	18	<10	<4.0	<10	61	75
	BG2	2.0	03/04/10	<4.0	4.4	86	1.0	<0.80	26	<4.9 UJ	10	64	8.8	0.099	5.3	26	<10	<4.0	<10	54	64
	BG3	2.0	03/04/10	<4.0	5.3	95	0.95	<0.80	24	<4.0 UJ	11	51	37	0.073	<4.0	18	<10	<4.0	<10	57	100
	BG4	2.0	03/04/10	<4.0	4.9	100	1.0	<0.80	27	<4.1 UJ	12	53	11	0.055	<4.0	20	<10	<4.0	<10	62	79
Soil Human Health Screening Levels[5]		Residential land Use		30	0.07	5,200	150	1.7	100,000	17	660	3,000	80 [6]	18	380	1,600	380	380	5	530	23,000
		Commercial/ Industrial Use		380	0.24	63,000	1,700	7.5	100,000	37	3,200	38,000	320 [6]	180	4,800	16,000	4,800	4,800	63	6,700	100,000

Notes:

1. Metals analyzed using United States Environmental Protection Agency (U.S. EPA) Method 6010B, hexavalent chromium by U.S. EPA Method 7196, and mercury by U.S. EPA Method EPA Method 7471A.
2. Not detected above laboratory reporting limit shown.
3. Duplicated sample identification.
4. Sample incorrectly identified as ACO3 on chain-of-custody form. Correct nomenclature should have been AC13.
5. Use of California Human Health Screening Levels in evaluation of contaminated properties, California EPA, January 2005.
6. Revised California Human Health Screening Levels for Lead, California EPA, September 2009.

Abbreviations:

NA = not analyzed or not applicable.

UJ = not detected above estimated reporting limit shown.

J- = estimated value, potentially biased low.

J = estimated value.

TABLE 3

SOIL SAMPLE RESULTS FOR CYANIDE, SVOCs, pH AND TPH[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Cyanide	SVOCs	pH	TPH-d	TPH-mo
AOC 1	AC01-03-0.5	0.5	02/11/10	<1.0[2]	NA	NA	NA	NA
	AC01-04-0.5	0.5	02/11/10	<1.0	ND	NA	<10	<10
	AC01-05-0.5	0.5	02/12/10	<1.0	NA	NA	NA	NA
	AC19-01-0.5[3]	0.5	02/12/10	<1.0	NA	NA	NA	NA
	AC01-06-0.5	0.5	02/11/10	<1.0	NA	NA	NA	NA
	AC01-07-6	6.0	03/04/10	<1.0	ND	NA	<10	<10
AOC 2	AC02-01-0.5	0.5	02/12/10	<1.0	ND	NA	<10	<10
	AC02-02-0.5	0.5	02/12/10	<1.0	NA	NA	NA	NA
AOC 3	AC03-01-0.5	0.5	02/12/10	<1.0	ND	NA	<10	<10
	AC18-01-0.5[3]	0.5	02/12/10	<1.0	ND	NA	<10	<10
AOC 4	AC04-01-0.5	0.5	02/11/10	<1.0	ND	NA	<10	<10
	AC04-02-0.5	0.5	02/11/10	<1.0	NA	NA	NA	NA
AOC 5	AC05-01-6	6.0	03/04/10	<1.0	NA	NA	NA	NA
	AC05-02-0.5	0.5	03/04/10	<1.0	ND	NA	<10	<10
AOC 6	AC06-01-0.5	0.5	02/12/10	<1.0	ND	NA	<10	<10
	AC06-01-5.5	5.5	02/12/10	<1.0	ND	NA	<10	<10
	AC06-02-0.5	0.5	02/12/10	<1.0	NA	NA	NA	NA
	AC06-02-4.5	4.5	02/12/10	<1.0	NA	NA	NA	NA
AOC 7	AC07-01-0.5	0.5	02/11/10	<1.0	ND	NA	<10	<10
	AC07-02-0.5	0.5	02/11/10	<1.0	NA	NA	NA	NA
	AC07-02-5	5.0	03/05/10	<1.0	NA	NA	NA	NA
AOC 8	AC08-01-5.5	5.5	03/04/10	<1.0	ND	NA	<10	<10
AOC 9	AC09-01-3.5	3.5	02/11/10	<1.0	ND	NA	<10	<10
	AC09-02-3.5	3.5	02/12/10	<1.0	NA	NA	NA	NA
AOC 10	AC10-01-0.5	0.5	02/12/10	<1.0	ND	NA	<10	10
	AC20-01-0.5[3]	0.5	02/12/10	<1.0	ND	NA	<10	11
	AC10-02-0.5	0.5	02/12/10	<1.0	NA	NA	NA	NA
AOC 11	AC11-01-0.5	0.5	02/12/10	<1.0	ND	NA	<10	<10
AOC 12	AC12-01-5	5.0	02/12/10	<1.0	ND	NA	<10	<10
	AC12-02-5	5.0	02/12/10	<1.0	NA	NA	NA	NA
AOC 13	AC13-01-0.5	0.5	02/11/10	<1.0	ND	NA	<10	<10
	AC13-02-0.5	0.5	02/11/10	<1.0	NA	NA	NA	NA
	AC13-03-0.5	0.5	02/11/10	<1.0	ND	NA	<10	<10
	AC13-04-0.5	0.5	02/11/10	<1.0	NA	NA	NA	NA
AOC 14	AC14-01-10	10.0	03/04/10	<1.0	NA	8.2	NA	NA
	AC14-01-15	15.0	03/04/10	<1.0	NA	8.7	NA	NA
	AC14-01-20	20.0	03/04/10	<1.0	NA	8.3	NA	NA

TABLE 3

SOIL SAMPLE RESULTS FOR CYANIDE, SVOCs, pH AND TPH[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet)	Sample Date	Cyanide	SVOCs	pH	TPH-d	TPH-mo
AOC 15	AC15-01-0.5	0.5	03/03/10	<1.0	ND	NA	<20	26
	AC15-01-4.5	4.5	03/03/10	<1.0	NA	NA	NA	NA
	AC15-02-0.5	0.5	02/11/10	6.5	NA	NA	NA	NA
	AC15-02-2.5	2.5	02/11/10	9.2	NA	NA	NA	NA
AOC 16	AC16-01-0.5	0.5	02/11/10	<1.0	ND	8.9	<10	<10
SB03	SB03-0.5	0.5	03/05/10	<1.0	NA	NA	NA	NA

Notes:

1. Cyanide analyzed by United States Environment Protection Agency (U.S. EPA) Method SM4500CN-E, pH by U.S. EPA Method 9045C, SVOCs by U.S. EPA Method 8270C, and TPH by U.S. EPA Method 8015B.
2. Not detected above laboratory reporting limit shown.
3. Duplicate sample identification.

Abbreviations:

SVOCs = semi volatile organic compounds.
TPH = total petroleum hydrocarbon.
TPH-d = TPH as diesel.
TPH-mo = TPH as motor oil.
ND = not detected.
NA = not analyzed or not available.

TABLE 4

SOIL SAMPLE RESULTS FOR VOCs[1] AND TPH-g

Crown City Plating Company
El Monte, California
Results reported in micrograms per kilogram (µg/kg)

Area Designation	Sample ID	Sample Location	Sample Depth (feet)	Sample Date	TPH-g	VOCs				
						Tetrachloroethene	Trichloroethene	Acetone	Benzene	Toluene
SB01	SB1-1	UST 13 dispenser	1	3/4/2010	<0.19 [2]	<0.79	<1.6	<39	**0.9**	<0.79
	SB1-5	UST 13 dispenser	5	3/4/2010	<0.19	**3.4**	<1.6	<40	**1.0**	<0.79
	SB1-10	UST 13 dispenser	10	3/4/2010	<0.20	**0.95**	<1.7	<43	<0.86	<0.86
	SB1-15	UST 13 dispenser	15	3/4/2010	<0.20	<0.82	<1.6	<41	<0.82	<0.82
SB02	SB2-1	UST 13 dispenser	1	3/4/2010	<0.21	**2.6**	**1.9**	**42**	**1.3**	<0.78
	SB2-5	UST 13 dispenser	5	3/4/2010	<0.21	**16**	**2.6**	**76**	**2.0**	**1.7**
	SB2-10	UST 13 dispenser	10	3/4/2010	<0.22	**3.0**	<1.7	<42	**1.1**	<0.84
	SB2-15	UST 13 dispenser	15	3/4/2010	<0.18	<0.82	<1.6	<41	<0.82	<0.82

Note:

1: Other analytes are not detected above laboratory reporting limits.

2. Not detected above laboratory reporting limit shown.

Abbreviations:

VOCs = volatile organic compounds using U.S. EPA Method 8260B

TPH-g = total petroleum hydrocarbons quantified as gasoline using U.S. EPA Method 8015

TABLE 5

SOIL GAS SAMPLE RESULTS FOR TEMPORARY SOIL GAS PROBES[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2,4-Trimethylbenzene	Carbon Tetrachloride	Chloroform	Chloromethane	Styrene	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
SV-1	5	3/3/2010	**0.88**	**0.13**	<0.1[2]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-2-5'	5	3/3/2010	**5.6**	**1.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	**0.27**	<0.1	<0.05	<100	<0.05	**0.18**	**7.4**	**0.51**	**0.13**	<1
SV-3-5'	5	3/3/2010	**260**	**76**	<1	<1	<1	<1	<1	**11**	**0.87J[3]**	<1	<0.5	**1.1**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-4	5	3/3/2010	**1.1**	**0.75**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	**200**	<0.05	**0.78**	**0.23**	**3.0**	**1.0**	<1
SV-5-5'-1V	5	3/3/2010	**11**	**6.4**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-5-5'-3V	5	3/3/2010	**22**	**17**	<1	<1	<1	<1	<1	**0.56J**	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-5-5'-7V	5	3/3/2010	**20**	**17**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-6-5'	5	3/3/2010	**97**	**43**	<0.1	**0.14**	<0.1	<0.1	**0.22**	**21**	**0.71**	<0.1	<0.05	**0.57**	**0.12J**	**0.083J**	**0.10**	<100	**0.069**	<0.1	**0.19**	**0.11J**	<0.1	<1
SV-7	5	3/3/2010	**33**	**14**	**0.099J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.057J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.058J**	<0.2	<0.1	<1
SV-8	5	3/3/2010	**130**	**720**	**13**	<0.1	<0.1	<0.1	**0.13**	**0.51**	**0.12**	<0.1	<0.05	**1.9**	<0.2	<0.1	<0.05	<100	**0.087**	<0.1	**0.088J**	<0.2	<0.1	<1
SV-9-5'	5	3/3/2010	**4.6**	**6.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-9-5'-D	5	3/3/2010	**4.3**	**6.4**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-10-5'	5	3/3/2010	**4.2**	**7.5**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-11-5'	5	3/3/2010	**9.0**	**8.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-12-5'	5	3/4/2010	**17**	**13**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-12-5'-D	5	3/4/2010	**17**	**13**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-13-5'	5	3/3/2010	**7.2**	**5.9**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	**0.53J**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-14-5'	5	3/3/2010	**6.4**	**3.0**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-15-5'	5	3/4/2010	**5.8**	**9.8**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-16-5'	5	3/3/2010	**2.5**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	**7.6**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-17-5'	5	3/3/2010	**2.7**	**0.55J**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-18-5'	5	3/4/2010	**3.4**	**3.5**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-19-5'	5	3/4/2010	**4.2**	**4.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-20	5	3/4/2010	**6.2**	**1.8**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.069J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-21	5	3/4/2010	**2.8**	**2.7**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.076J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.064J**	<0.2	<0.1	<1
SV-22	5	3/3/2010	**0.39**	**0.63**	**0.12**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-23	5	3/4/2010	**1.1**	**0.63**	**3.1**	<0.1	<0.1	<0.1	**0.091J**	<0.1	<0.1	<0.1	<0.05	**0.073J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.083J**	<0.2	<0.1	<1
SV-24	5	3/4/2010	**2.0**	**1.6**	**5.8**	<0.1	**0.063J**	<0.1	**0.25**	<0.1	<0.1	<0.1	<0.05	**0.095J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-25	5	3/4/2010	**13**	**0.74J**	**22**	<1	<1	<1	0.66J	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-26	5	3/4/2010	**0.39**	**0.064J**	**0.25**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-26-DUP	5	3/4/2010	**0.43**	<0.1	**0.24**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1

TABLE 5

SOIL GAS SAMPLE RESULTS FOR TEMPORARY SOIL GAS PROBES[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2,4-Trimethylbenzene	Carbon Tetrachloride	Chloroform	Chloromethane	Styrene	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
SV-27	5	3/4/2010	**31**	**0.08J**	**2.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-28	5	3/4/2010	**0.13**	<0.1	**0.052J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.98**	**0.15J**	**0.05J**	<1
SV-29	5	3/4/2010	**0.54**	<0.1	**0.29**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.072**	<0.1	**0.60**	**0.14J**	<0.1	<1
SV-30	5	3/4/2010	**3.2**	**0.15**	**0.86**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-31	5	3/4/2010	**0.73**	**0.55**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.12**	<0.2	<0.1	<1
SV-32	5	3/4/2010	**3.9**	**2.1**	**31**	<0.1	**0.78**	<0.1	**1.0**	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-33-5'	5	3/4/2010	**15**	**12**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-32 (SV34)[4]	5	3/4/2010	**82**	**5.9**	**0.70 J**	<1	<1	<1	<1	<1	<1	<1	<0.5	**24**	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-35	5	3/5/2010	**0.18**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.052**	<0.1	**0.18**	<0.2	<0.1	<1
SV-36	5	3/4/2010	**0.085J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-37	5	3/4/2010	**0.32**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.086J**	<0.2	<0.1	<1
SV-38-5'	5	3/4/2010	**2.1**	**1.9**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.05	<1	<1	<2	<1	<10
SV-39	5	3/4/2010	**0.28**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.054J**	<0.2	<0.1	<1
SV-40	5	3/5/2010	**100**	**21**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**	**0.14**	**0.19**	<0.05	**0.23**	<0.2	<0.1	<0.05	**100**	**0.14**	**0.19**	**0.94**	**0.73**	**0.2**	<1
SV-41	5	3/5/2010	**24**	**0.61**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.11**	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.079**	**0.26**	**0.66**	**1.1**	**0.32**	<1
SV-42	5	3/5/2010	**17**	**6.7**	**0.66 J**	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-43-15'	15	3/5/2010	**100**	**59**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	**0.54 J**	<2	<1	<10
SV-44-15'	15	3/5/2010	**200**	**520**	**9.1**	<5	<5	<5	<5	**3.7 J**	<5	<5	<2.5	<5	<10	<5	<2.5	<5000	<2.5	<5	<5	<10	<5	<50
SV-45	5	3/5/2010	**75**	**88**	**1.2**	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-46	5	3/5/2010	**4.2**	**2.8**	**11**	<1	<1	<1	**0.63 J**	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-46-DUP	5	3/5/2010	**4.2**	**2.4**	**9.9**	<1	<1	<1	**0.56 J**	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
CHHSLs Shallow Soil Gas		Residential	**0.18**	**0.528**	**991**	NA	NA	**0.0496**	NA	**15.9**	**31.9**	NA	**0.0251**	NA	NA	NA	**0.0133**	NA	**0.0362**	NA	**135**	**319**	**315**	NA
		Commercial	**0.603**	**1.77**	**2790**	NA	NA	**0.167**	NA	**44.4**	**88.7**	NA	**0.0846**	NA	NA	NA	**0.0448**	NA	**0.0122**	NA	**378**	**887**	**879**	NA

Abbreviations:

CHHSLs = California human health screening levels.

NA = Not available.

DUP = Duplicate sample.

Notes:

1. Analyzed for volatile organic compounds and total petroleum hydrocarbon quantified as gasoline using U.S. EPA Method 8260B.
2. Not detected above reporting limit shown
3. Estimated concentration.
4. The samples were mislabeled asAMEC-SV-32. Correct sample ID should be AMEC-SV-34.

TABLE 6

SOIL GAS SAMPLE RESULTS FOR PERMANENT NESTED VAPOR WELLS[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Chloroform	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
VW11-20' (VW-1)[2]	20	3/4/2010	**430**	**450**	**1.8**	**1.1**	**1.7**	<1[3]	**1.2**	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW11-40' (VW-1)	40	3/4/2010	**79**	**260**	<10	<10	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW11-60' (VW-1)	60	3/4/2010	**81**	**510**	<10	**12**	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW11-80' (VW-1)	80	3/4/2010	**48**	**270**	<10	**11**	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW-3-20'	20	3/3/2010	**13**	**39**	<1	<1	**2.3**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-1V [4]	20	3/3/2010	**0.99**	**6.3**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-3V [4]	20	3/3/2010	**2.3**	**14**	<1	<1	**1.1**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-7V [4]	20	3/3/2010	**2.0**	**11**	<1	<1	**0.95**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-40'-1V	40	3/3/2010	**630**	**1,400**	**0.54J** [5]	**7.0**	**39**	**1.7**	**4.5**	<0.5	<100	<0.5	<1	<1	<2	<1	<10
VW-3-40'-3V	40	3/3/2010	**820**	**1,700**	<25	<25	**42**	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-40'-7V	40	3/3/2010	**970**	**1,800**	<25	<25	**49**	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-60'	60	3/3/2010	**430**	**3,000**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-80'	80	3/3/2010	**130**	**810**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-80'-DUP	80	3/3/2010	**150**	**900**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW4-20'	20	3/4/2010	**1.6**	**2.1**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-40'	40	3/4/2010	**2.2**	**7.0**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-60'	60	3/4/2010	**2.6**	**9.5**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-80'	80	3/4/2010	**1.4**	**1.3**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
CHHSLs Soil Gas		Residential	**0.18**	**0.528**	**991**	NA	**15.9**	**31.9**	NA	**0.0133**	NA	**0.0362**	NA	**135**	**319**	**315**	NA
		Commercial	**0.603**	**1.77**	**2790**	NA	**44.4**	**88.7**	NA	**0.0448**	NA	**0.0122**	NA	**378**	**887**	**879**	NA

Abbreviations:

CHHSLs = California human health screening levels.

NA = Not available.

DUP = Duplicate sample.

Notes:

1. Analyzed for volatile organic compounds and total petroleum hydrocarbon quantified as gasoline using U.S. EPA Method 8260B.
2. The samples were mislabeled as VW11. Correct sample ID should be VW1.
3. Not detected above reporting limit shown
4. Initial purge-volume test results not used because of high vacuum in the vapor sample.
5. Estimated concentration.

TABLE 7

CONFIRMATION SOIL GAS SAMPLE RESULTS[1]
Crown City Plating Company
El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Date	Acetone	Benzene	2-Butanone (MEK)	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-dichloroethane	1,1-dichloroethene	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-ethyltoulene	4-Methyl-2-Pentanone (MIBK)	o-Xylene	m,p-Xylenes	Styrene	Tetrachloroethene	Toluene	Trichloroethene	1,1,1-Trichloroethane	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	1,1-difluororethance	Isopropanol
SV-17	03/05/10	0.0082	0.0049	<0.0040[2]	<0.0013	<0.0024	<0.0010	0.0028	<0.0020	<0.0020	<0.0020	<0.0094	0.012	0.0045	<0.0061	0.01	0.031	0.042	0.26	0.042	0.025	0.058	0.0033	0.014	<0.0054	<0.012
SV-19	03/05/10	0.036	0.0032	0.006	<0.0013	0.025	0.0013	<0.0025	<0.0020	<0.0020	<0.0020	0.021	0.0055	<0.0025	0.01	0.0064	0.018	0.016	1.8	0.024	0.38	0.019	<0.0025	0.0074	<0.0054	<0.012
SV-22	03/05/10	0.0082	0.0029	<0.0040	<0.0013	<0.0024	<0.0010	0.0029	<0.0020	<0.0020	<0.0020	<0.0094	0.0097	0.0045	<0.0061	0.011	0.032	0.02	0.09	0.032	<0.0027	0.14	0.0049	0.016	<0.0054	<0.012
SV-45	03/05/10	<0.076	0.044	<0.071	<0.021	0.12	<0.017	<0.040	<0.032	0.15	0.12	<0.15	0.074	0.041	<0.098	0.09	0.28	<0.10	37	0.34	44	0.43	<0.039	<0.12	<0.086	<0.20
SV-46	03/05/10	0.029	0.054	<0.0040	<0.0013	0.031	<0.0010	0.0032	0.2	0.38	0.0032	0.063	0.11	0.066	0.026	0.12	0.37	0.025	2	0.2	1.3	5	0.041	0.19	0.027	<0.012

Notes:
1. Analyzed for volatile organic compounds using U.S. EPA Method TO-15.
2. Not detected above reporting limit shown.

TABLE 8

ANALYTICAL RESULTS FOR GRAB WATER SAMPLES[1]
Crown City Plating Company
El Monte, California

Results reported in milligrams per liter (mg/L) unless otherwise noted.

Area Designation	Sample ID	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Hexavalent Chromium (µg/L)	Cobalt	Copper	Iron	Lead	Cyanide (µg/L)	Diesel	Motor Oil	SVOCs[2]
AOC 5	AC05	06/24/10	1.1	0.0024	<0.0020[3]	0.091	<0.0020	0.019	460	0.49	88	<0.10	3.3	<5.0	0.096	<5.0	NA[4]	NA	NA
AOC 6	AC06	06/24/10	0.80	<0.0020	<0.0020	0.086	<0.0020	<0.00040	5.5	0.029	<1.0	<0.0020	0.022	3.7	0.069	<5.0	540	670	NA
	AC6-3	06/24/10	1.9	0.0026	<0.0020	0.020	<0.0020	0.023	460	0.35	6.0	0.11	6.4	<5.0	0.040	<5.0	690	1,800	NA
AOC 9	AC9	06/24/10	0.20	0.0022	0.017	0.20	<0.0020	<0.00040	78	0.40	<1.0	<0.0020	0.13	2.2	0.018	7.7	NA	NA	NA
AOC 16	AC16-1	06/24/10	0.22	<0.0020	<0.0020	0.070	<0.0020	0.00066	58	2.2	1,500	0.0046	0.24	4.6	0.080	16	NA	NA	ND[5]
	AC16-2	06/24/10	0.42	0.0026	<0.0020	0.042	<0.0020	0.0016	59	2.3	1,600	0.0048	0.31	8.7	0.087	13	NA	NA	ND
Outside southwest corner of southern building	SW Corner Sump	06/24/10	0.29	<0.040	<0.040	0.11	<0.040	<0.0080	440	0.73	<5.0	<0.020	11	2.2	0.023	<5.0	NA	NA	ND

Notes:
1. Metals analyzed using U.S. EPA Method 6010B/7471A, hexavalent chromium using U.S. EPA Method 7199, SVOCs using U.S. EPA 8270C, cyanide using method SM4500CN-E, and TPH as diesel and motor oil using U.S. EPA Method 8015B.
2. Semi-volatile organic compounds.
3. Not detected above laboratory reporting limit shown
4. Not analyzed.
5. Not detected. See laboratory analytical data sheets for complete list of compounds.

TABLE 9

ANALYTICAL RESULTS FOR CONCRETE AND BRICK SAMPLES
Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 1	AC01-10B [2]	07/22/10	<10	<0.50UJ	31	<1.0	1.1J	410	3.0	4.4J	280	230	<0.020	<5.0	1,200	<0.50	<1.0	<5.0UJ	<10	560
	AC01-10C [3]	07/22/10	<10	4.5J	110	<1.0	4.9J	9.8	1.9	3.7J	19	8.9	<0.020	<5.0	11	<0.50	<1.0	<5.0UJ	20	34
	AC01-11B	07/22/10	<10	<0.50UJ	64	<1.0	<1.0UJ	1,000	4.1	17J	1,300	230	<0.020	<5.0	17,000	<0.50	<1.0	<5.0UJ	<10	1,400
	AC01-11C	07/22/10	<10	3.2J	100	<1.0	2.4J	310	1.1	15J	2,400	38	0.034	<5.0	14,000	<0.50	<1.0	<5.0UJ	22	650
	AC01-13C	07/22/10	<10	<0.50UJ	110	<1.0	1.6J	680	82	5.9J	160	5.0	<0.020	<5.0	110	<0.50	<1.0	<5.0UJ	19	60
	AC01-15C	07/22/10	<10	<0.50UJ	120	<1.0	1.3J	970	390	9.1J	450	34	<0.020	<5.0	290	<0.50	<1.0	<5.0UJ	25	78
	AC01-17C	07/22/10	<10	19J	120	<1.0	6.1J	430	0.60	6.0J	7,500	320	0.034	12	190	<0.50	<1.0	<5.0UJ	14	410
	AC01-18B	07/22/10	16	<0.50UJ	43	<1.0	<1.0UJ	2,700	0.17	<3.0UJ	13,000	190	0.069	<5.0	1,100	<0.50	<1.0	<5.0UJ	<10	230
	AC01-18C	07/22/10	<10	4.5J	100	<1.0	1.4J	15	0.39	5.4J	67	18	<0.020	<5.0	8.4	<0.50	<1.0	<5.0UJ	24	56
	AC01-19C	07/22/10	<10	4.4J	130	<1.0	1.0J	10	0.32	5.8J	33	6.4	<0.020	<5.0	8.6	<0.50	<1.0	<5.0UJ	27	33
AOC 5	AC05-05C	07/22/10	<10	27J	74	<1.0	1.1J	55	4.0	7.7J	65	21	0.038	<5.0	61	<0.50	<1.0	<5.0UJ	27	98
	AC05-06C	07/22/10	<10	4.9J	98	<1.0	<1.0UJ	24	2.5	10J	27	6.8	0.028	<5.0	12	<0.50	<1.0	<5.0UJ	35	37
AOC 13	AC13-06C	07/22/10	<10	<0.50UJ	64	<1.0	<1.0UJ	1,600	720	5.7J	20	120	<0.020	<5.0	7.4	<0.50	<1.0	<5.0UJ	11	14

Notes:
1. Metals analyzed using United States Environmental Protection Agency (U.S. EPA) Method 6010B/7471A and hexavalent chromium using U.S. EPA Method 7199.
2. Sample ID ending in "B" indicates brick sample.
3. Sample ID ending in "C" indicates concrete sample.

Abbreviations:
"<" = less than; not detected above reporting limit shown.
J = estimated value.
UJ = not detected above estimated reporting limit shown.

TABLE 10

ANALYTICAL RESULTS FOR WIPE SAMPLES
Crown City Plating Company
El Monte, California

Results reported in micrograms per wipe (µg/wipe)

Area Designation	Sample ID	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Cyanide	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
AOC 1	AC01-WIPE1	07/22/10	<10	<1.0	380	<1.0	<1.0	<1.0	2.8	2.4	360	33,000	<1.0	<0.50	1.4	24,000	<1.0	<1.0	<1.0	<1.0	7,100
	AC01-WIPE2	07/22/10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	1.6	1,500	2,000	<1.0	<0.50	<1.0	250	<1.0	<1.0	<1.0	<1.0	<10
AOC 5	AC05-WIPE1	07/22/10	<10	<1.0	<1.0	<1.0	<1.0	350	5.3	<1.0	490	<25	<1.0	<0.50	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0
	AC05-WIPE2	07/22/10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<25	<1.0	<0.50	<1.0	<200	<1.0	<1.0	<1.0	<1.0	<1.0
	AC05-WIPE(D)	07/22/10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<25	<1.0	<0.50	<1.0	<200	<1.0	<1.0	<1.0	<1.0	<1.0
AOC 13	AC13-WIPE	07/22/10	<10	<1.0	3.9	<1.0	<1.0	<1.0	4.9	<1.0	<1.0	<25	170	<0.50	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10
Blank		07/22/10	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<1.0	<1.0	<25	<1.0	<0.50	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<10

Note:
1. Metals analyzed using United States Environmental Protection Agency (U.S. EPA) Method 6010B/7471A, hexavalent chromium using U.S. EPA Method 7199, and cyanide using U.S. EPA 9010.

Abbreviations:
"<" = less than; not detected above reporting limit shown.
(D) = duplicate sample.

TABLE 11

XRF SURVEY RESULTS[1]
Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Date	Arsenic	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc
AOC 1 Metal Plating Dept.	ac01-a1s	08/13/10	50	716	< LOD[2]	9,915	32,327	114	< LOD	< LOD	3,422	< LOD	2,762
	ac01-a2s	08/13/10	42	783	< LOD	10,036	48,986	148	< LOD	< LOD	850	< LOD	2,243
	ac01-a3s	08/13/10	47	7,347	< LOD	2,138	36,621	174	< LOD	19	1,216	< LOD	4,692
	ac01-a4s	08/13/10	< LOD	388	< LOD	3,967	12,396	48	< LOD	< LOD	7,242	< LOD	7,110
	ac01-a6b	08/13/10	< LOD	275	< LOD	4,518	9,593	< LOD	< LOD	< LOD	5,035	< LOD	728
	ac01-b1s	08/13/10	46	1,586	< LOD	5,457	28,044	198	< LOD	< LOD	7,404	< LOD	2,749
	ac01-b2s	08/13/10	< LOD	1,295	< LOD	2,762	12,762	33	< LOD	< LOD	11,476	< LOD	924
	ac01-b3b	08/13/10	< LOD	6,430	< LOD	18,488	84,407	365	< LOD	< LOD	7,801	< LOD	4,389
	ac01-c1s	08/13/10	25	431	475	628	2,263	40	31	< LOD	1,359	42	442
	ac01-c2s	08/13/10	58	6,805	< LOD	4,208	12,370	169	< LOD	< LOD	15,184	< LOD	1,051
	ac01-c2-e	08/13/10	343	10,254	< LOD	9,185	80,901	6,022	< LOD	< LOD	17,873	19,342	1,815
	ac01-c2-t	08/13/10	117	5,971	< LOD	3,946	117,388	1,264	< LOD	< LOD	1,752	34	1,886
	ac01-c2-w	08/13/10	151	16,888	< LOD	3,407	28,022	919	< LOD	< LOD	4,687	259	1,267
	ac01-c3b	08/13/10	26	7,241	< LOD	6,900	24,092	211	< LOD	< LOD	6,130	10	2,570
	ac01-d1s	08/13/10	< LOD	351	< LOD	234	7,630	121	< LOD	< LOD	136	< LOD	390
	ac01-d2s	08/13/10	< LOD	986	< LOD	249	16,816	59	< LOD	< LOD	329	< LOD	1,759
	ac01-d3b	08/13/10	201	6,541	< LOD	4,847	30,298	1,407	< LOD	< LOD	2,959	< LOD	3,037
	ac01-e1s	08/13/10	< LOD	368	< LOD	784	12,470	41	< LOD	< LOD	135	< LOD	5,036
	ac01-e2s	08/13/10	< LOD	334	384	989	5,438	140	< LOD	< LOD	1,798	< LOD	790
	ac01-e3b	08/13/10	179	30,453	< LOD	18,579	45,598	2,044	< LOD	< LOD	4,458	< LOD	3,381
	ac01-e4b	08/13/10	24	4,869	< LOD	1,223	29,585	99	< LOD	17	269	< LOD	339
	ac01-e5b	08/13/10	< LOD	1,355	< LOD	16,639	16,012	88	< LOD	< LOD	3,483	< LOD	629
	ac01-f1s	08/13/10	34	3,929	< LOD	3,028	32,541	96	< LOD	< LOD	2,028	< LOD	3,450
	ac01-f2s	08/13/10	< LOD	1,132	< LOD	275	15,336	39	< LOD	< LOD	2,722	< LOD	663
	ac01-f3s	08/13/10	< LOD	445	< LOD	428	10,809	26	< LOD	< LOD	89	< LOD	223
	ac01-f4s	08/13/10	< LOD	< LOD	< LOD	250	11,058	136	< LOD	< LOD	133	< LOD	165
	ac01-f5s	08/13/10	19	< LOD	< LOD	233	20,114	34	< LOD	< LOD	185	< LOD	203
	ac01-f6b	08/13/10	< LOD	3,540	< LOD	6,023	89,729	324	< LOD	< LOD	1,751	< LOD	2,530
	ac01-tun1	08/13/10	33	2,197	< LOD	9,330	48,301	161	< LOD	< LOD	23,347	< LOD	3,222
	ac01-tun2	08/13/10	< LOD	2,449	< LOD	30,257	20,874	253	< LOD	< LOD	31,924	< LOD	10,576
	ac01-wipe	08/13/10	< LOD	2,825	< LOD	75,003	163,203	72	< LOD	< LOD	7,310	< LOD	< LOD
AOC 1 Plating Line 1	ac01n-a1s	08/13/10	< LOD	1,895	< LOD	22,978	24,594	177	< LOD	< LOD	147,243	< LOD	3,337
	ac01n-a2s	08/13/10	< LOD	502	< LOD	7,686	17,746	111	< LOD	< LOD	51,344	< LOD	4,834
	ac01n-a3s	08/13/10	45	1,889	< LOD	5,540	21,486	198	< LOD	< LOD	14,906	< LOD	2,263
	ac01n-a4b	08/13/10	46	708	< LOD	6,502	40,188	280	< LOD	< LOD	20,942	< LOD	2,051
	ac01n-b1s	08/13/10	< LOD	3,259	< LOD	69,987	22,667	< LOD	< LOD	< LOD	339,693	< LOD	< LOD
	ac01n-b2s	08/13/10	53	4,052	< LOD	38,410	19,398	304	< LOD	< LOD	7,162	< LOD	4,625
	ac01n-b3b	08/13/10	< LOD	738	< LOD	8,736	17,841	172	< LOD	< LOD	13,447	< LOD	1,874
	ac01n-c1s	08/13/10	< LOD	3,411	< LOD	7,852	26,424	212	< LOD	16	979,799	< LOD	1,069
	ac01n-c2s	08/13/10	49	1,351	< LOD	4,903	17,572	293	< LOD	< LOD	2,934	< LOD	4,786
	ac01n-c2-t	08/13/10	< LOD	3,983	2732	34,040	296,676	14,167	< LOD	23	68,961	< LOD	7,103
	ac01n-c2-e	08/13/10	41	1,637	< LOD	5,034	42,712	113	< LOD	7	14,321	< LOD	1,197
	ac01n-c2-w	08/13/10	< LOD	2,420	< LOD	23,304	65,322	345	< LOD	27	91,804	< LOD	1,406
	ac01n-c3b	08/13/10	62	16,006	< LOD	21,355	29,554	907	< LOD	< LOD	78,082	< LOD	2,171
	ac01n-d1s	08/13/10	106	13,537	< LOD	19,710	21,524	705	< LOD	< LOD	94,934	< LOD	10,877
	ac01n-d2s	08/13/10	54	1,846	< LOD	6,772	23,971	285	< LOD	< LOD	4,426	< LOD	11,811
	ac01n-d3b	08/13/10	73	4,648	< LOD	35,115	60,410	917	< LOD	< LOD	79,996	< LOD	11,665
	ac01n-e1s	08/13/10	1398	80,106	< LOD	2,367	106,198	31,560	< LOD	< LOD	1,190	< LOD	1,138
	ac01n-e2s	08/13/10	< LOD	3,016	< LOD	24,867	30,687	1,585	< LOD	< LOD	14,326	< LOD	19,578
	ac01n-e3b	08/13/10	92	22,449	< LOD	27,016	56,474	2,193	< LOD	< LOD	50,282	< LOD	19,444
	ac01n-f1s	08/13/10	51	8,703	< LOD	1,781	22,167	165	< LOD	< LOD	2,761	< LOD	4,352
	ac01n-f2s	08/13/10	59	951	< LOD	20,729	27,240	657	< LOD	< LOD	1,296	< LOD	77,096
	ac01n-f3b	08/13/10	100	2,138	< LOD	6,125	25,180	590	< LOD	< LOD	8,094	< LOD	7,428
	ac01n-fc-t	08/13/10	25	425	1064	2,058	117,521	114	< LOD	< LOD	3,019	< LOD	2,408
	ac01n-fc-e	08/13/10	346	908	< LOD	1,145	12,859	2,225	< LOD	< LOD	1,869	< LOD	2,020
	ac01n-fc-w	08/13/10	141	2,024	< LOD	1,462	17,522	806	< LOD	< LOD	1,329	< LOD	2,187

TABLE 11

XRF SURVEY RESULTS[1]
Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Date	Arsenic	Chromium	Cobalt	Copper	Iron	Lead	Mercury	Molybdenum	Nickel	Selenium	Zinc
AOC 1 Plating Line 1 (continued)	ac01n-g1s	08/13/10	81	7,728	< LOD	3,863	19,458	434	< LOD	< LOD	7,528	< LOD	9,728
	ac01n-g2s	08/13/10	46	3,116	< LOD	2,006	12,766	124	< LOD	< LOD	3,482	< LOD	5,202
	ac01n-g3s	08/13/10	< LOD	2,694	< LOD	1,807	17,442	52	< LOD	< LOD	604	< LOD	4,916
	ac01n-g4s	08/13/10	33	5,976	186	2,737	9,734	127	< LOD	< LOD	682	< LOD	3,267
	ac01n-g5b	08/13/10	47	1,911	< LOD	4,549	33,222	271	< LOD	< LOD	4,903	< LOD	7,434
	ac01n-wipe	08/13/10	387	2,242	< LOD	< LOD	69,389	2,215	< LOD	< LOD	109,195	< LOD	1,109
AOC 5	ac05-a1s	08/13/10	< LOD	3,293	< LOD	2,363	41,655	37	< LOD	< LOD	145,798	< LOD	1,281
	ac05-a2s	08/13/10	< LOD	1,762	< LOD	4,503	150,198	34	< LOD	< LOD	225,895	< LOD	609
	ac05-a3s	08/13/10	< LOD	2,556	< LOD	1,662	17,466	37	< LOD	< LOD	115,167	< LOD	3,155
	ac05-a4s	08/13/10	< LOD	960	< LOD	410	66,926	18	< LOD	< LOD	104,351	< LOD	2,357
	ac05-a5b	08/13/10	86	15,795	< LOD	6,490	128,627	744	< LOD	29	39,912	< LOD	2,517
	ac05-b1s	08/13/10	91	16,666	< LOD	2,092	16,964	384	< LOD	< LOD	20,077	< LOD	2,820
	ac05-b2s	08/13/10	62	14,203	< LOD	16,249	31,442	341	< LOD	< LOD	47,314	< LOD	1,076
	ac05-b3b	08/13/10	187	53,809	< LOD	4,468	56,050	3,711	< LOD	< LOD	21,155	< LOD	1,583
	ac05-c1s	08/13/10	26	8,305	< LOD	3,258	19,444	57	< LOD	< LOD	33,475	< LOD	4,567
	ac05-c2s	08/13/10	< LOD	319	< LOD	4,629	7,956	34	< LOD	< LOD	2,643	< LOD	179
	ac05-c3b	08/13/10	113	7,528	< LOD	8,965	55,306	814	< LOD	< LOD	31,530	< LOD	4,378
	ac05-d1s	08/13/10	24	4,160	< LOD	3,731	16,960	149	< LOD	< LOD	4,762	< LOD	5,450
	ac05-d2s	08/13/10	17	247	< LOD	5,019	15,972	64	< LOD	< LOD	636	< LOD	134
	ac05-d3b	08/13/10	40	1,835	< LOD	5,411	25,984	332	< LOD	< LOD	4,377	< LOD	647
	ac05-e1s	08/13/10	< LOD	597	< LOD	429	13,361	67	< LOD	< LOD	1,073	< LOD	397
	ac05-e2s	08/13/10	30	504	< LOD	3,318	13,254	184	< LOD	< LOD	3,039	< LOD	322
	ac05-e3s	08/13/10	< LOD	567	< LOD	1,013	24,541	45	< LOD	< LOD	27,038	< LOD	897
	ac05-e4b	08/13/10	30	1,504	< LOD	2,555	33,680	151	< LOD	< LOD	10,397	< LOD	2,211
	ac05-ec-e	08/13/10	< LOD	399	< LOD	1,128	9,553	44	< LOD	< LOD	31,615	< LOD	207
	ac05-ec-w	08/13/10	58	3,245	< LOD	27,425	44,050	78	< LOD	6	9,202	< LOD	355
	ac05-f1b	08/13/10	25	5,698	< LOD	1,515	95,954	162	< LOD	< LOD	5,640	< LOD	2,757
	ac05-f2b	08/13/10	< LOD	3,083	< LOD	837	34,458	246	< LOD	< LOD	2,963	< LOD	1,322
	ac05-g1b	08/13/10	23	5,328	< LOD	652	32,049	104	< LOD	< LOD	1,018	< LOD	1,285
	ac05-g2b	08/13/10	71	18,594	1365	2,159	178,193	816	< LOD	< LOD	3,423	< LOD	3,153
	ac05-h1b	08/13/10	< LOD	6,241	< LOD	1,425	109,045	963	< LOD	< LOD	2,796	< LOD	4,147
	ac05-h2b	08/13/10	56	8,410	< LOD	898	96,078	1,021	< LOD	< LOD	1,800	< LOD	2,070
AOC 13	ac13-a1s	08/13/10	2183	105,629	< LOD	2,145	19,444	14,444	< LOD	< LOD	1,189	< LOD	4,325
	ac13-b1b	08/13/10	97	37,651	< LOD	2,401	49,133	572	< LOD	12	1,331	< LOD	1,553
	ac13-b2s	08/13/10	2029	233,030	< LOD	2,363	23,951	21,186	< LOD	< LOD	1,492	< LOD	2,600
	ac13-b3b	08/13/10	521	32,573	< LOD	732	21,103	4,108	< LOD	< LOD	257	< LOD	492
	ac13-c1s	08/13/10	24	1,392	< LOD	512	31,191	152	< LOD	< LOD	93	< LOD	148
	ac13-c2s	08/13/10	748	159,085	< LOD	1,417	16,635	4,564	< LOD	< LOD	1,075	< LOD	3,306
	ac13-c3b	08/13/10	291	23,422	< LOD	4,585	43,776	1,689	< LOD	< LOD	2,996	< LOD	4,473
	ac13-d1s	08/13/10	< LOD	5,332	< LOD	10,089	32,608	228	< LOD	< LOD	1,413	< LOD	946
	ac13-d2s	08/13/10	223	97,508	< LOD	3,434	41,569	1,576	< LOD	< LOD	847	< LOD	1,993
	ac13-d3b	08/13/10	23	11,563	< LOD	955	21,037	91	< LOD	< LOD	611	< LOD	563
	ac13-e1s	08/13/10	32	2,345	< LOD	10,203	20,493	160	< LOD	< LOD	1,264	< LOD	4,372
	ac13-e2s	08/13/10	< LOD	176,337	< LOD	954	13,792	608	< LOD	< LOD	178	< LOD	333
	ac13-e3b	08/13/10	57	3,507	< LOD	519	26,103	224	< LOD	19	480	< LOD	1,867

Notes:
1. XRF = X-ray fluorescence. Concrete samples analyzed in the field with an Innov-X XT-260-440 PMI Analyzer.
2. "<" LOD = XRF reports <LOB when result of analyte is less than the limit of detection as measured by the analyzer. No numerical detection limit value is provided in the XRF data.

TABLE 12

PRIMARY AND DUPLICATE SAMPLE PAIR RESULTS[1]
Crown City Plating Company
El Monte, California

Soil Gas Samples[2]

Analyte	*Temporary Soil Gas Probes*									*Permanent Vapor Monitoring Well*					
	AMEC-SV-9-5'			AMEC-SV-12-5'			AMEC-SV-26			AMEC-SV-46			VW-3-80'		
	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD
Tetrachloroethene	4.6	4.3	7	17	17	0	0.39	0.43	10	4.2	4.2	0	130	150	14
Trichloroethene	6.7	6.4	5	13	13	0	0.064	<0.1	NA[3]	2.8	2.4	15	810	900	11

Soil Samples

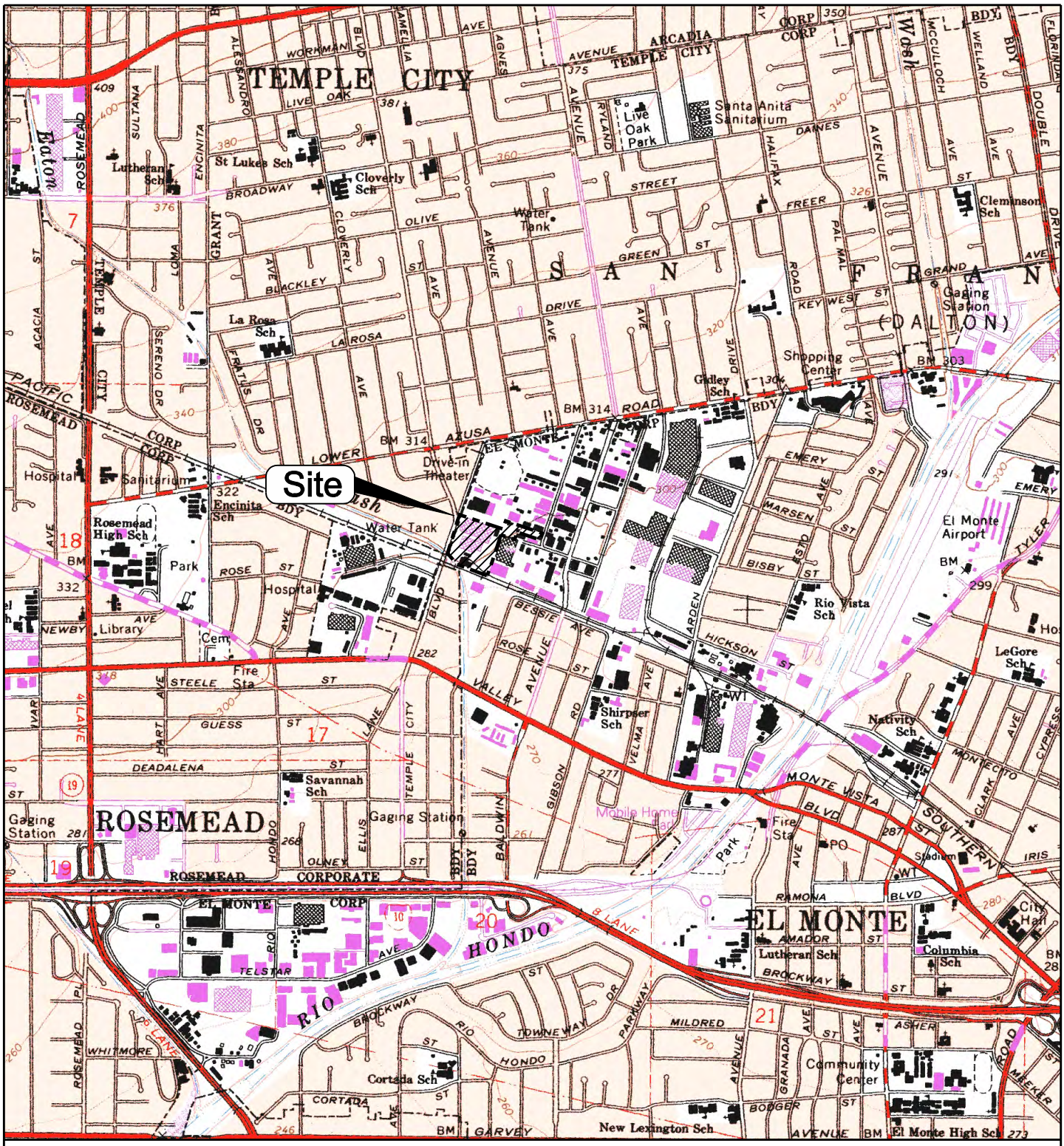
Analyte	AC01-05-0.5			AC01-12			AC03-01-0.5			AC5-08			AC06-03			AC10-01-0.5		
	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD	Primary	Duplicate	RPD
Arsenic	<4.0	<4.0	NA	<4.0	<4.0	NA	5	4.6	8	<4.0	<4.0	NA	5.3	5.7	7	4.6	4.6	0
Barium	60	61	2	62	64	3	100	100	0	82	79	4	100	94	6	110	93	17
Chromium	16	16	0	19	20	5	26	25	1	32	44	32	610	1100	57	23	23	0
Cobalt	7.9	7.9	0	10	14	33	12	12	0	15	20	29	12	14	15	18	10	57
Copper	29	95	106	33	36	9	51	49	4	42	41	2	510	700	31	51	55	8
Hexavalent Chromium	<4.9	<4.2	NA	<4.8	<4.8	NA	<4.2	<4.9	NA	<4.9	4.8	NA	12	6.3	62	<3.5	<3.7	NA
Lead	6.6	7.2	9	6.8	6.7	1	13	11	17	7.5	8.2	9	26	42	47	37	54	37
Mercury	0.074	0.085	14	0.099	0.1	1	0.074	0.067	10	0.063	0.092	37	0.12	0.12	0	0.072	0.066	9
Molybdenum	<4.0	<4.0	NA	<4.0	<4.0	NA	8.4	<4.0	NA	<4.0	4.2	NA	9.5	6.6	36	<4.0	<4.0	NA
Nickel	14	28	50	16	19	17	20	20	0	23	34	39	730	820	12	19	19	0
Vanadium	42	41	2	44	45	2	62	59	5	53	50	6	56	59	5	53	51	4
Zinc	50	56	11	52	56	7	79	77	3	64	61	5	290	240	19	100	120	18

Abbreviations:
RPD = Relative Percent Difference.

Notes:
1. Concentrations are in micrograms per liter for soil gas samples and milligrams per kilograms for soil samples. J/UJ flags not reported.
2. See Tables 5 and 6 for complete list of detected compounds. RPDs were calculated for tetrachloroethene and trichloroethene.
3. Not calculated.

FIGURES

SSI Report (AMEC, 2010a)



Basemap modified from U.S.G.S. 7.5 minute Quadrangle Map El Monte 1966, California. Photo-revised 1981 and minor revision 1994.

Approximate Scale in Feet
0 1000 2000
0 300 600
Approximate Scale in Meters

SITE LOCATION MAP
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 1

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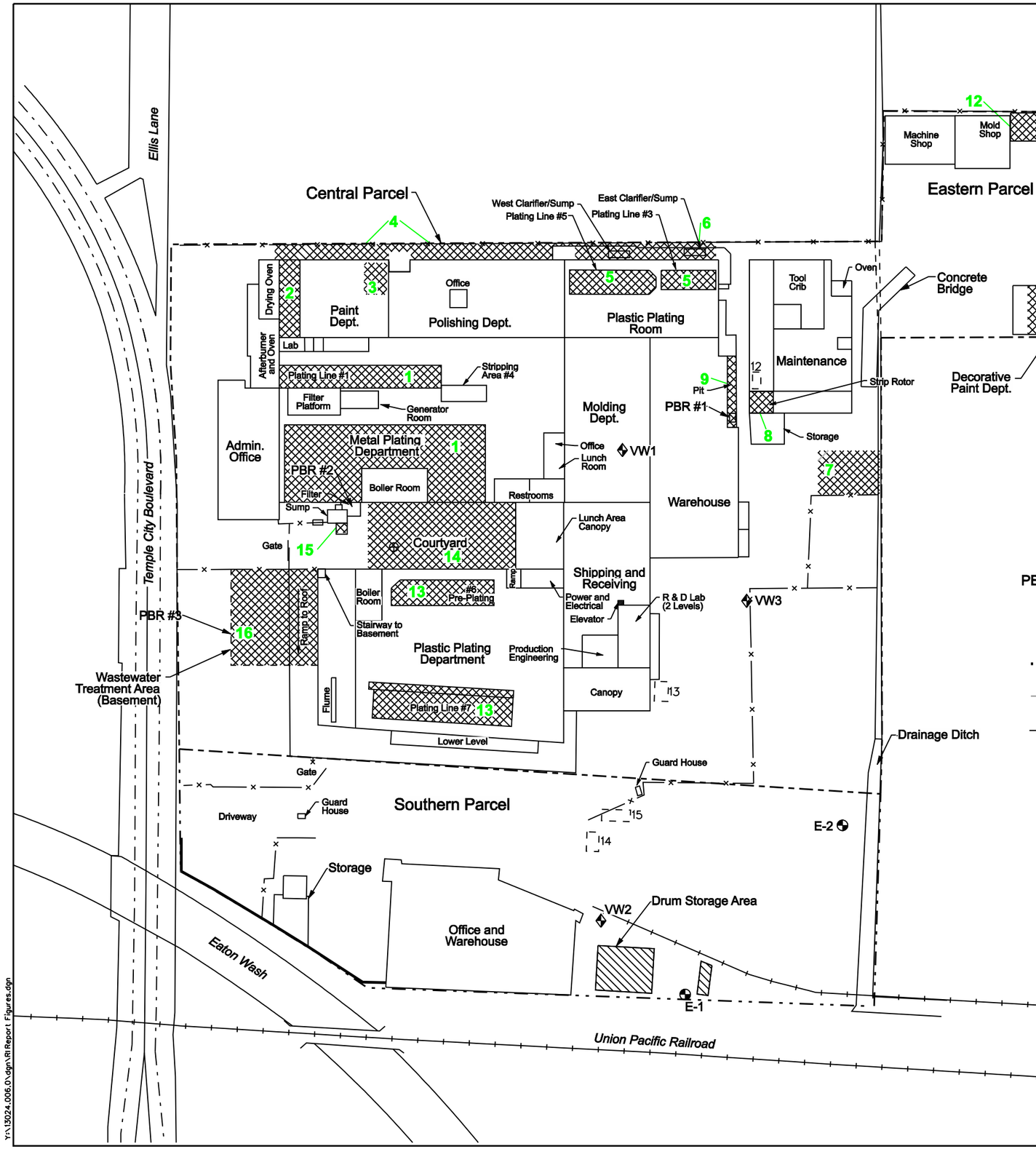

Explanation

- Water production well location
- Monitoring well location
- Nested vapor well location
- PBR #1 — Permit-By-Rule (PBR) unit
- 15 — Former UST location and designation (USTs 1-11 are shown on Figure 3)
- Property boundary
- Railroad tracks
- Fence line
- Concrete pad
- 16 — Area of concern and designation

Underground Storage Tank (UST) Information	
No.	Use
12	Waste oil
13	Regular gasoline
14	Unleaded gasoline
15	Diesel

Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters

Note:

All locations are approximate.

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

FACILITY PLOT PLAN
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 2

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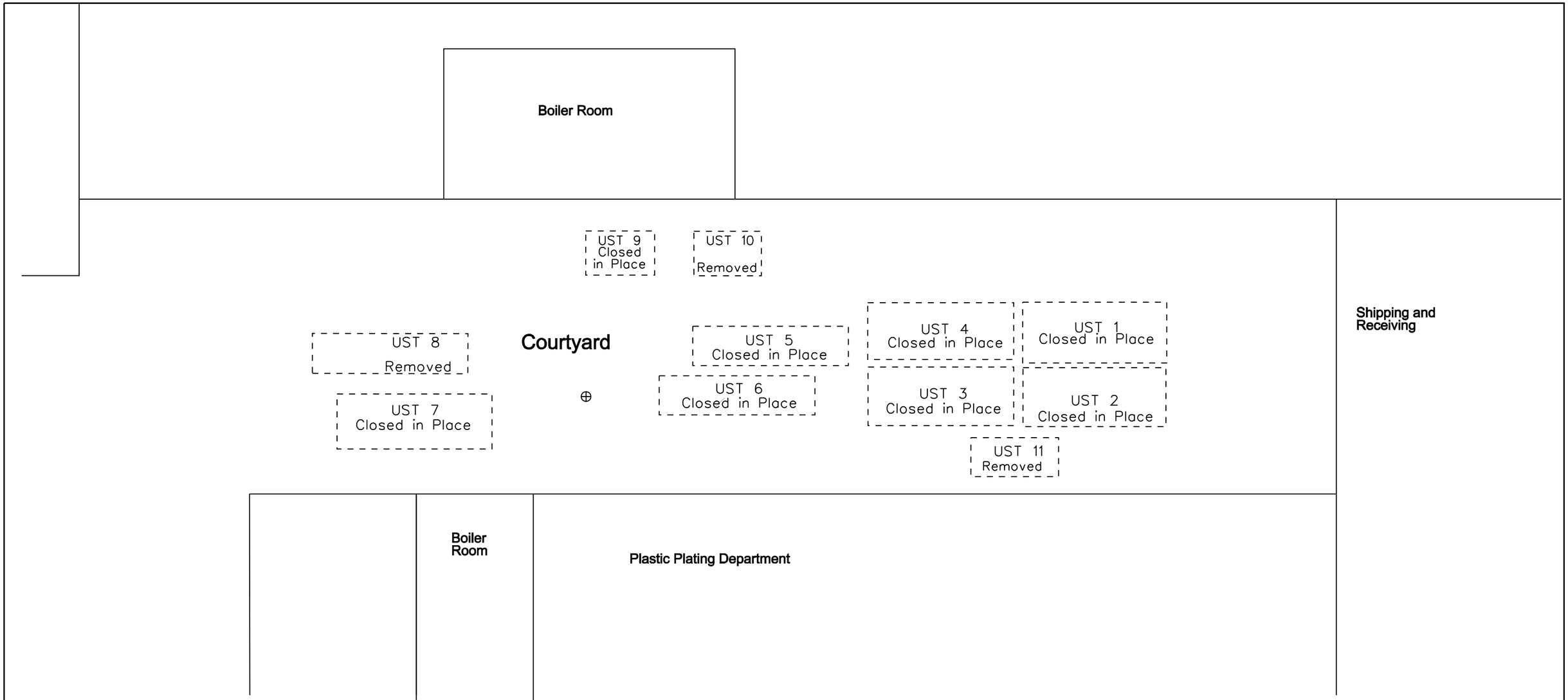

Explanation

⊕ Water production well location

UST 11 Former UST location and designation

Note:

1. All locations are approximate.

Underground Storage Tank (UST) Information	
No.	Use
1	Diesel No. 2
2	Diesel No. 2
3	Diesel No. 2
4	Diesel No. 2
5	Diesel No. 2
6	Absorbtion oil
7	Diesel No. 2
8	Diesel No. 2
9	Diesel No. 2
10	Absorbtion oil
11	Nitric acid

Approximate Scale in Feet
0 10 20
0 3 6
Approximate Scale in Meters

Basemap modified from Figures 2 and 3, Tank Sampling Locations, American Integrated Services, Inc., December 7, 1999; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

UNDERGROUND STORAGE TANK
LOCATIONS IN THE COURTYARD
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date:12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 3

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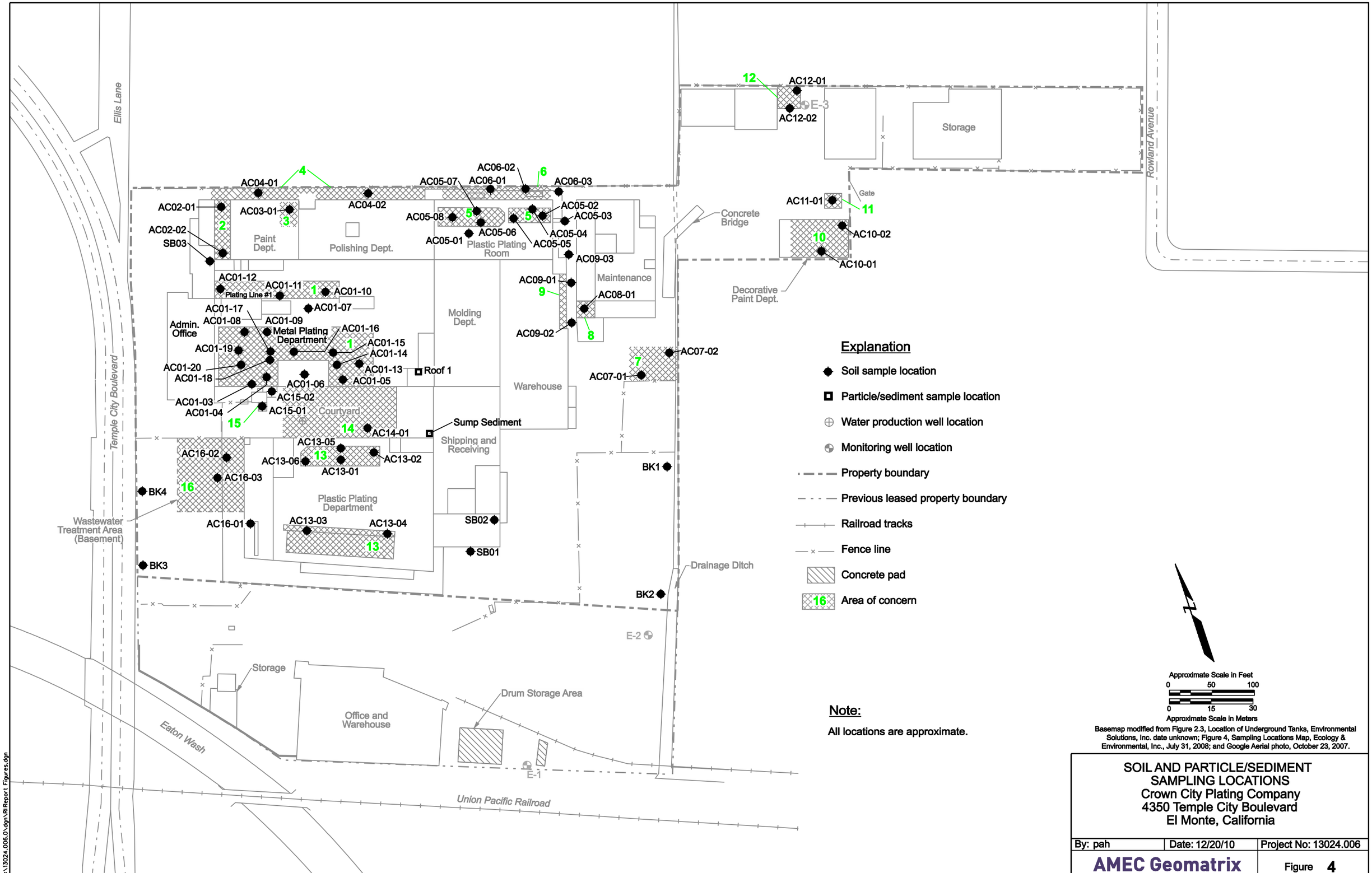
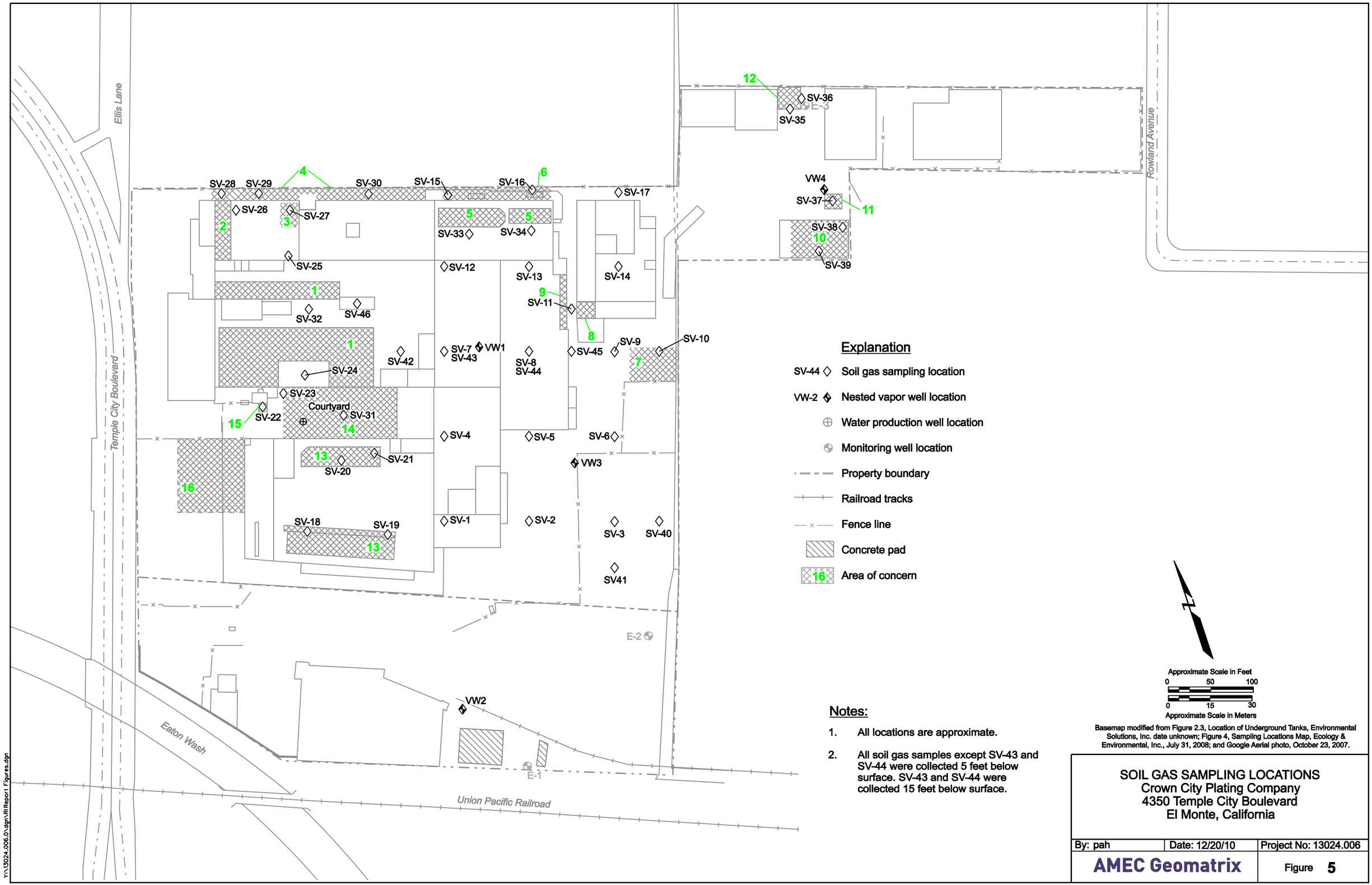


Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

SOIL AND PARTICLE/SEDIMENT SAMPLING LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 4



Notes:

1. All locations are approximate.
2. All soil gas samples except SV-43 and SV-44 were collected 5 feet below surface. SV-43 and SV-44 were collected 15 feet below surface.

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

SOIL GAS SAMPLING LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 5

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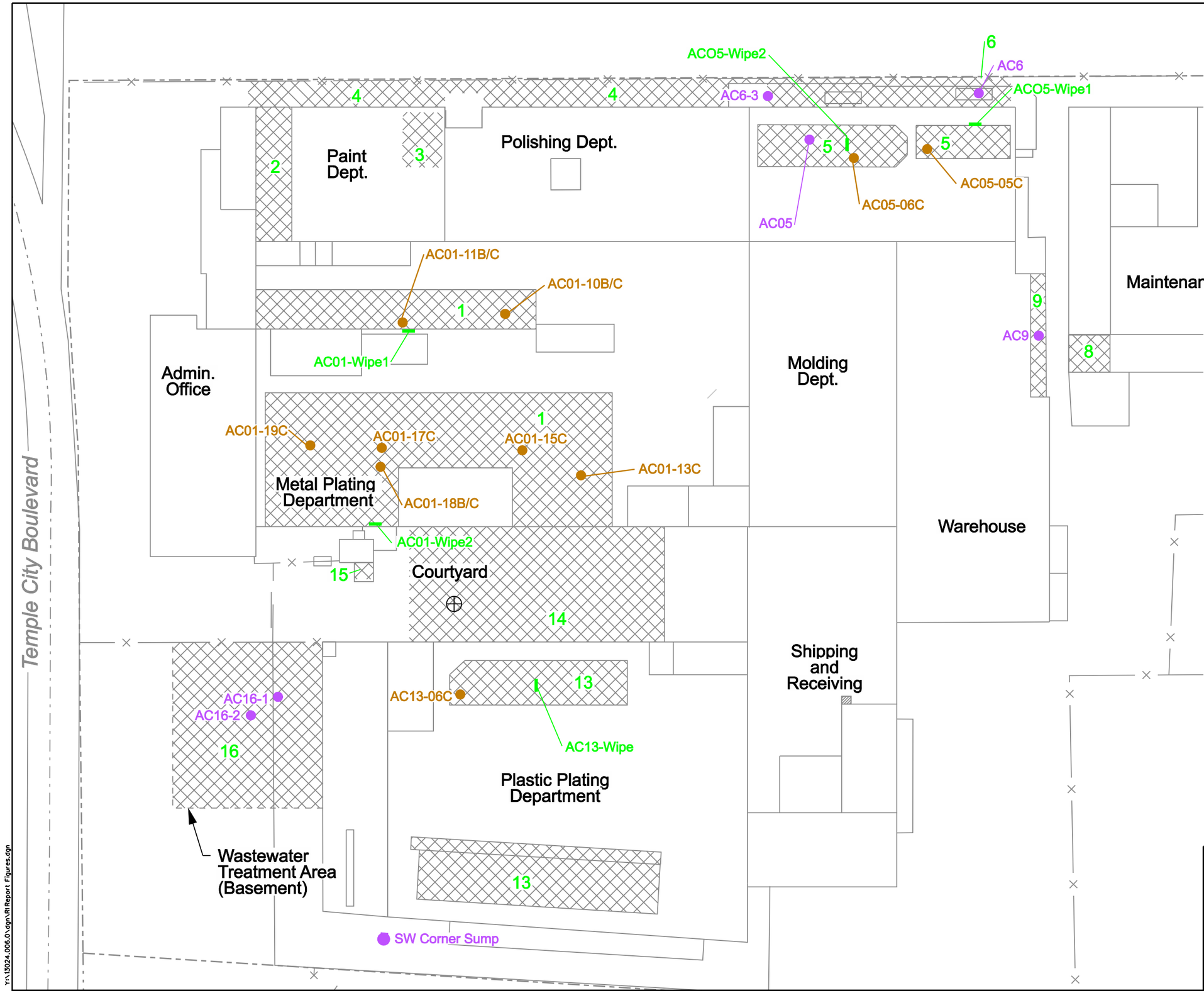

Explanation

- Water production well location
- Concrete/Brick sample location
- Wipe sample location
- Grab water sample location
- Property boundary
- Fence line
- Area of concern and designation

Note:

All locations are approximate.

Approximate Scale in Feet
0 25 50
0 7.5 15
Approximate Scale in Meters

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

GRAB WATER AND BUILDING MATERIALS SAMPLING LOCATION
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 6

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Explanation

- ⊕ Water production well location
- ● XRF sample location

Top designation

A 1 S / B — Side, Bottom, X-Axis, Y-Axis

Column designation

T / W / E — Top, Eastside, Westside

- Property boundary
- Fence line
- 16 Area of concern and designation

Note:

All locations are approximate.

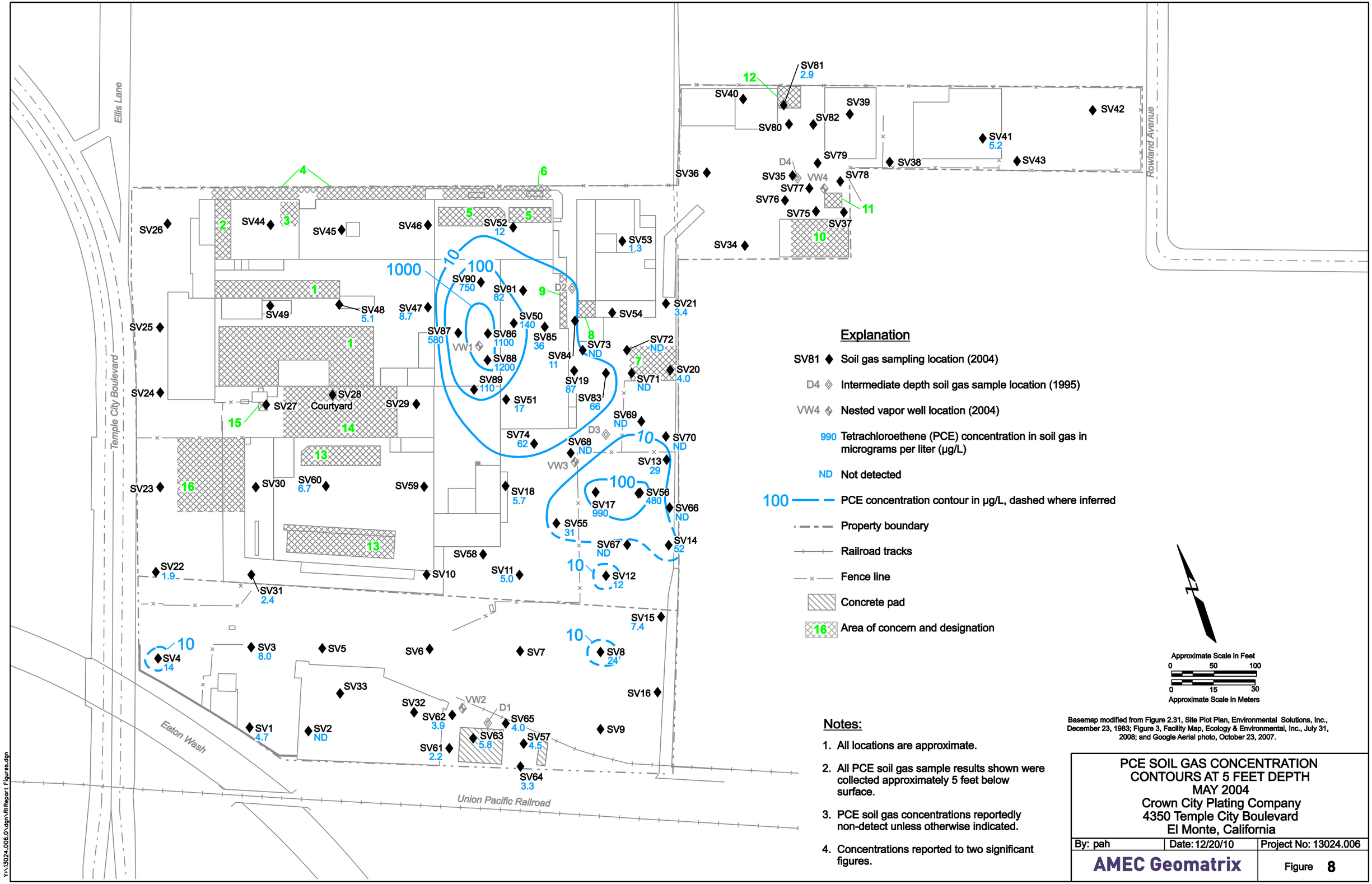
Approximate Scale in Feet: 0, 25, 50

Approximate Scale in Meters: 0, 7.5, 15

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

XRF SURVEY LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 7



Basemap modified from Figure 2.31, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

Notes:

1. All locations are approximate.
2. All PCE soil gas sample results shown were collected approximately 5 feet below surface.
3. PCE soil gas concentrations reportedly non-detect unless otherwise indicated.
4. Concentrations reported to two significant figures.

PCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MAY 2004
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 8

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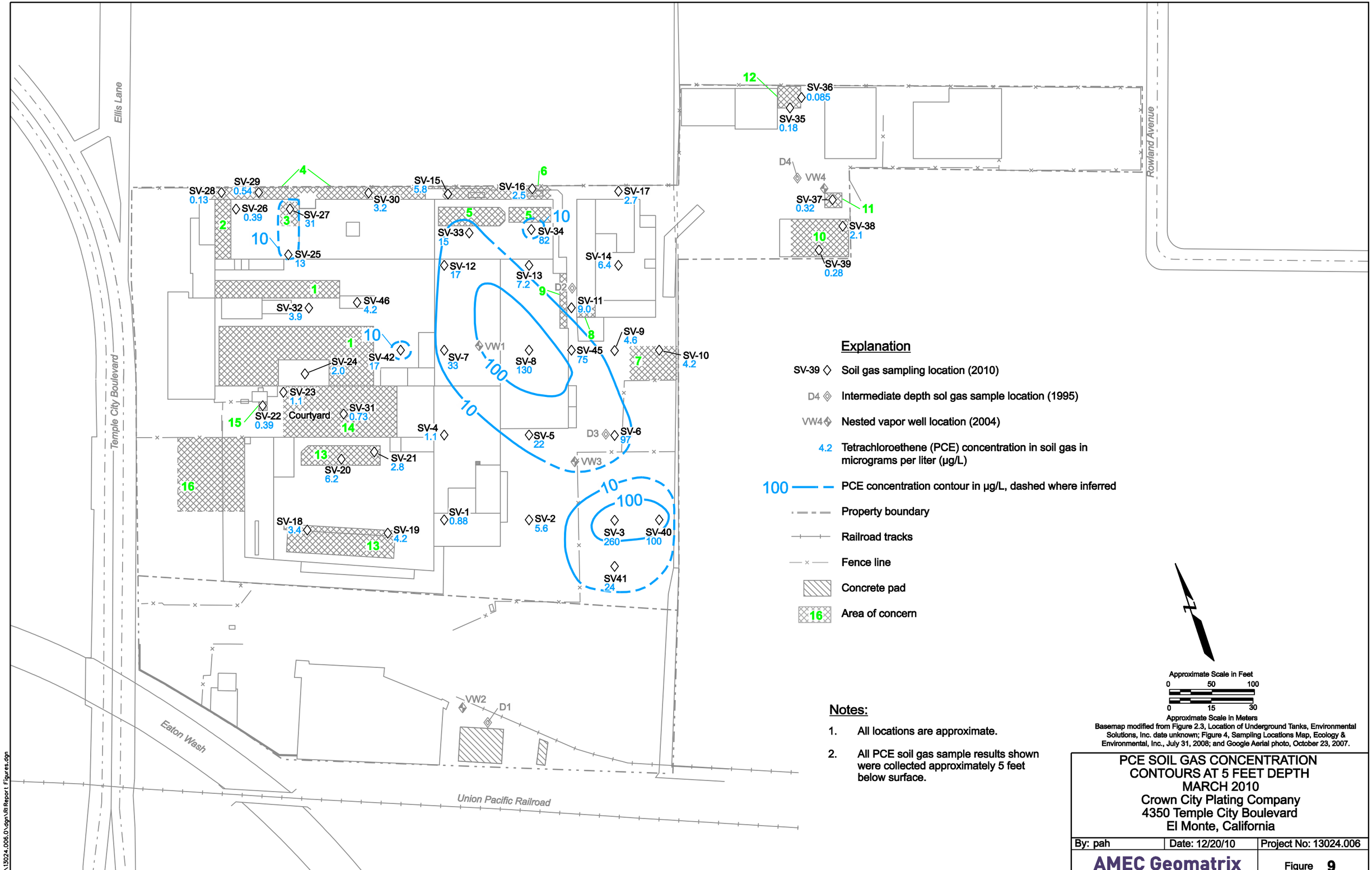

Explanation

SV-39 ◇ Soil gas sampling location (2010)

D4 ◈ Intermediate depth sol gas sample location (1995)

VW4 ◈ Nested vapor well location (2004)

4.2 Tetrachloroethene (PCE) concentration in soil gas in micrograms per liter (µg/L)

100 — — PCE concentration contour in µg/L, dashed where inferred

Property boundary

Railroad tracks

Fence line

Concrete pad

16 Area of concern

Notes:

1. All locations are approximate.
2. All PCE soil gas sample results shown were collected approximately 5 feet below surface.

Approximate Scale in Feet

0 50 100

0 15 30

Approximate Scale in Meters

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MARCH 2010
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 9

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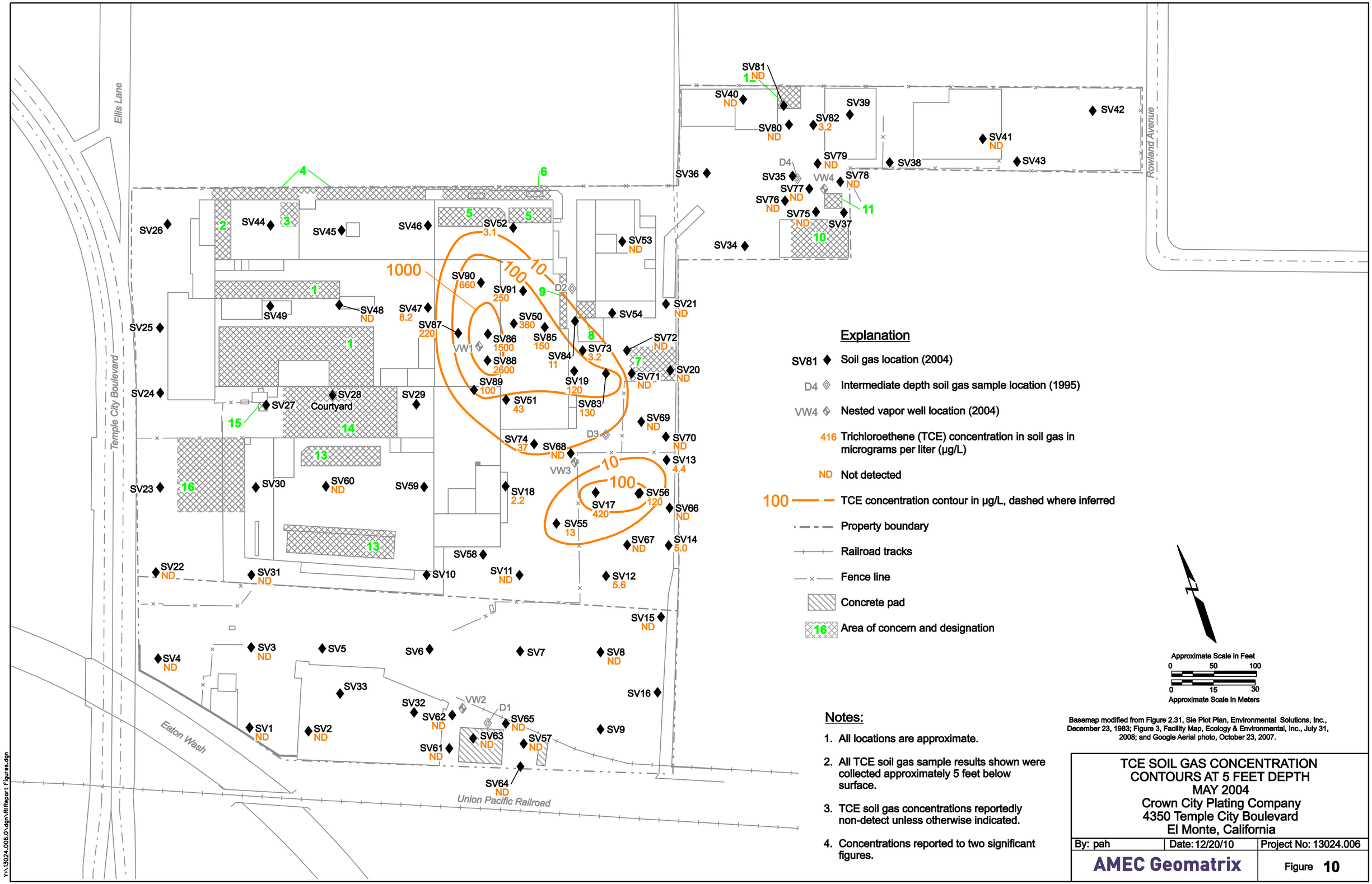

Notes:

1. All locations are approximate.
2. All TCE soil gas sample results shown were collected approximately 5 feet below surface.
3. TCE soil gas concentrations reportedly non-detect unless otherwise indicated.
4. Concentrations reported to two significant figures.

TCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MAY 2004
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 10

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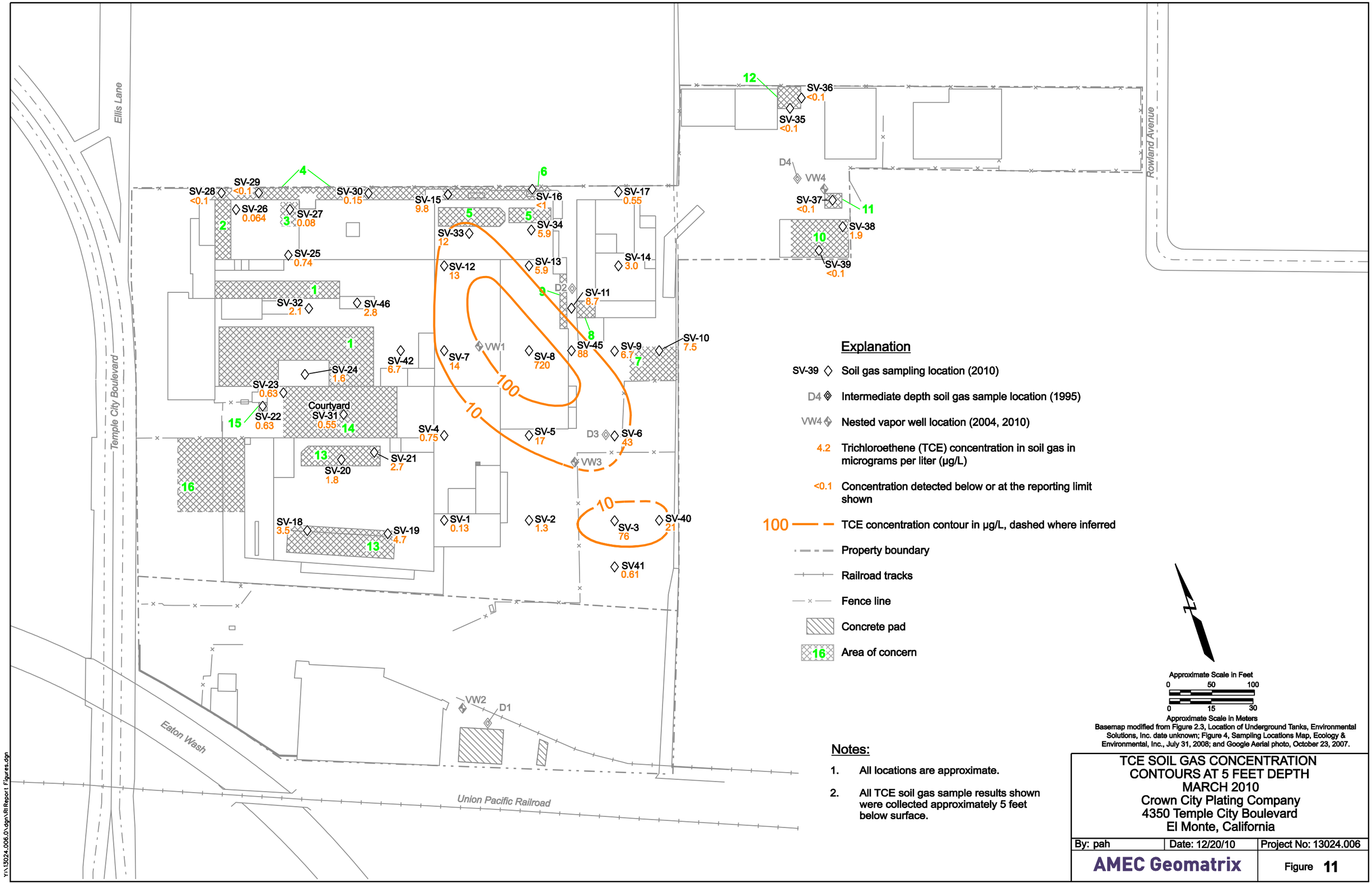
Ellis Lane
Temple City Boulevard
Rowland Avenue
Eaton Wash
Union Pacific Railroad
SV-28 <0.1
SV-29 <0.1
SV-30 0.15
SV-26 0.064
SV-27 0.08
SV-25 0.74
SV-32 2.1
SV-46 2.8
SV-15 9.8
SV-16 <1
SV-17 0.55
SV-33 12
SV-34 5.9
SV-12 13
SV-13 5.9
SV-14 3.0
SV-11 8.7
SV-45 88
SV-9 6.7
SV-10 7.5
SV-7 14
VW1
SV-8 720
SV-42 6.7
SV-24 1.6
SV-23 0.63
SV-22 0.63
Courtyard
SV-31 0.55
SV-4 0.75
SV-5 17
D3
SV-6 43
VW3
SV-21 2.7
SV-20 1.8
SV-18 3.5
SV-19 4.7
SV-1 0.13
SV-2 1.3
SV-3 76
SV-40 21
SV41 0.61
VW2
D1
D2
D4
VW4
SV-36 <0.1
SV-35 <0.1
SV-37 <0.1
SV-38 1.9
SV-39 <0.1
100
10
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Explanation
SV-39 Soil gas sampling location (2010)
D4 Intermediate depth soil gas sample location (1995)
VW4 Nested vapor well location (2004, 2010)
4.2 Trichloroethene (TCE) concentration in soil gas in micrograms per liter (µg/L)
<0.1 Concentration detected below or at the reporting limit shown
100 TCE concentration contour in µg/L, dashed where inferred
Property boundary
Railroad tracks
Fence line
Concrete pad
16 Area of concern
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters
Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.
Notes:
1. All locations are approximate.
2. All TCE soil gas sample results shown were collected approximately 5 feet below surface.
TCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MARCH 2010
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California
By: pah
Date: 12/20/10
Project No: 13024.006
AMEC Geomatrix
Figure 11
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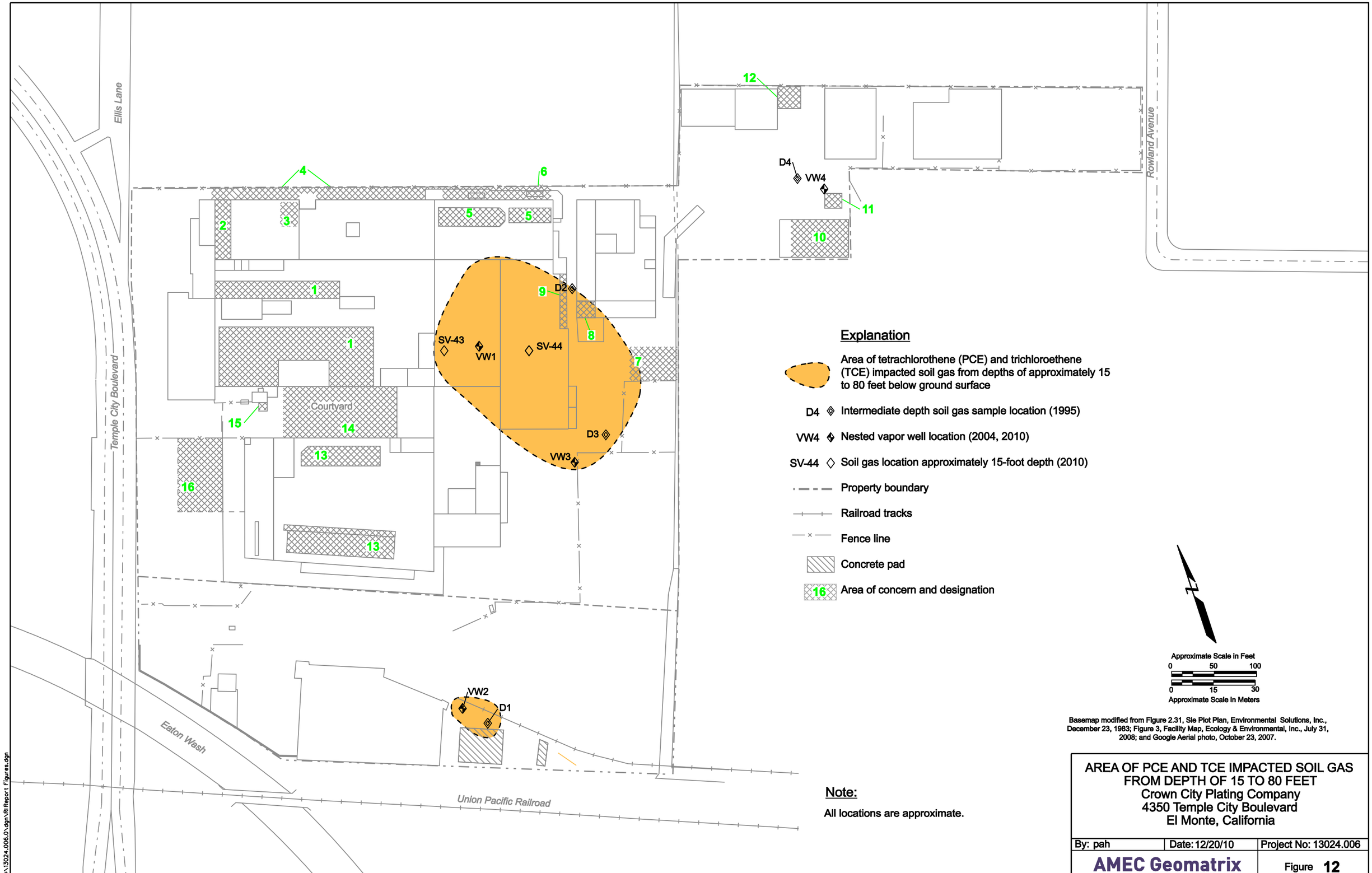


AREA OF PCE AND TCE IMPACTED SOIL GAS FROM DEPTH OF 15 TO 80 FEET
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 12

TABLES

SSI Work Plan (AMEC, 2010a)

TABLE 1

AERIAL PHOTOGRAPH REVIEW SUMMARY

Crown City Plating Company

El Monte, California

AMEC Geomatrix, Inc. reviewed aerial photographs of the site vicinity for the years 1928, 1938, 1949, 1956, 1968, 1976, 1989, 1994, 2002, and 2005 from EDR.
For purposed of this review, the Crown City Plating Company (CCPC) site area includes the following designations:

- Central Parcel (main portion of site; property owned by CCPC),
- Southern Parcel (southern portion of site leased from Southern-Pacific Transportation Company [SPTCo]), and
- Eastern Parcel (northeast portion of CCPC-owned property).

A summary of the conditions observed on the photographs is presented below.

<u>1928 Photograph – Scale 1 inch = 500 feet</u>
The central parcel appears to be used as agricultural land. The eastern parcel appears to be developed with a residence and associated structures. Eaton Wash appears to cut across the site, separating the central and southern parcels. Surrounding properties generally appear to be used as agricultural land with associated structures or residences. Temple City Boulevard and railroad tracks appear to the west and south of the site, respectively.

<u>1938 Photograph – Scale 1 inch = 555 feet</u>
No significant changes were noted in this photograph.

<u>1949 Photograph – Scale 1 inch = 500 feet</u>
No significant changes were noted in this photograph except the central parcel no longer appears to be used as agricultural land and residential development is present in surrounding properties to the northwest, east, and south.

<u>1956 Photograph – Scale 1 inch = 400 feet</u>
The central parcel appears to be developed with a large industrial building (the main building) that housed the former metal plating and polishing departments, paint shop, and office. The former plastic plating department appears as a separate structure adjacent to the polishing department. The maintenance building is present in the

northeastern portion of the parcel, and the remaining northern portion of the central parcel includes paved parking areas (the southern portion of the central parcel appears to be unpaved). Eaton Wash appears to have been relocated further south (to its current-day location) and channelized. Surrounding properties to the north and west appear to be developed with commercial and/or industrial buildings.

1968 Photograph – Scale: 1 inch = 480 feet

The southern parcel appears to be developed with a warehouse building and guard/office/storage buildings. Another elongated building is located north of the warehouse building. The former location of Eaton Wash is no longer visible. The eastern parcel appears to be developed with seven buildings that housed the former decorative paint department, machine shop, mold shop, rack department, and storage areas. Additional commercial and/or industrial development appears in surrounding properties.

1976 Photograph – Scale: 1 inch = 666 feet

The main building in the central parcel appears to be remodeled to include structures that housed the former warehouse, molding department, and shipping and receiving areas. It is unclear if the plastic plating department is present south of the metal plating department, or the area still used for parking. A bridge appears across the drainage ditch, connecting the central and eastern parcels.

1989 Photograph – Scale: 1 inch = 666 feet

The site appears to be in its current configuration. The main buildings in the central parcel appear to be remodeled to include areas that housed the former plastic plating department. The warehouse building located in the northeastern portion of the central parcel appears to be remodeled. The southern parcel is now occupied by CCPC and the elongated building has been removed.

1994 Photograph – Scale: 1 inch = 666 feet

No significant changes were noted in this photograph. The areas east of the warehouse and south of the maintenance building appear to be used for storage (type unknown).

2002 Photograph – Scale: 1 inch=666 feet

No significant changes were noted in this photograph.

2005 Photograph – Scale: 1 inch=485 feet

No significant changes were noted in this photograph. It appears that the site is no longer occupied.

TABLE 2

SOIL SAMPLE RESULTS IN THE FORMER DRUM STORAGE AREA

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per kilogram (µg/kg) [1]

Boring ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	1,1,1-trichloroethane	Toluene	Methylene Chloride	Chloroform	Acetone
B-1	5	10/16/87	***320***	***2,890***	<300 [2]	<300	<300	<300
	12	10/16/87	<300	<300	<300	<300	<300	<300
B-2	5	10/16/87	<300	<300	<300	<300	<300	<300
	15	10/16/87	<300	<300	<300	<300	<300	<300
	20	10/16/87	<300	<300	<300	<300	<300	<300
B-3	1	01/24/89	ND [3]	***34***	ND	ND	ND	ND
	5	01/24/89	ND	***220***	ND	ND	ND	ND
	10	01/24/89	ND	ND	ND	***24***	***5.4***	***58***
B-4	1	01/24/89	ND	***19***	ND	***40***	***8.4***	***68***
	5	01/24/89	***23***	***180***	***6***	***69***	ND	ND
	10	01/24/89	ND	ND	ND	ND	ND	ND
B-5	1	01/24/89	ND	ND	ND	ND	ND	ND
	5	01/24/89	***61***	***104***	ND	ND	ND	ND
	10	01/24/89	ND	***16***	ND	ND	ND	ND
B-6	1	01/24/89	ND	ND	ND	ND	ND	ND
	5	01/24/89	ND	***100***	ND	***82***	ND	ND
	10	01/24/89	ND	ND	ND	ND	ND	ND

Notes:
1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8240.
   BOLD and italic values indicate detection.
2. "<" = less than; concentration below laboratory reporting limit.
3. ND = not detected.

TABLE 3

SOIL SAMPLE RESULTS FOR MONITORING WELLS E-1, E-2, and E-3

Crown City Plating Company
El Monte, California

Concentrations reported in microgram per kilogram (µg/kg) [1,2]

Boring ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	Toluene
E-1	20	01/24/89	<5[3]	<5	<5	<5
E-1	30	01/24/89	<5	<5	<5	<5
E-1	40	01/24/89	<5	<5	***42***	<5
E-1	65	01/24/89	<5	<5	<5	<5
E-2	10	01/24/90	<5	<5	<5	***7***
E-2	40	01/24/90	<5	***11***	<5	<5
E-2	75	01/24/90	<5	<5	<5	***5***
E-3	10	01/23/90	<5	<5	<5	<5
E-3	45	01/23/90	<5	<5	<5	<5
E-3	80	01/23/90	<5	***8***	<5	<5

Notes:
1. Samples from E-1 analyzed for volatile organic compounds using U.S. Environmental Protection Agency (EPA) Method 8240. **BOLD** and italic values indicate detection.
2. Samples from E-2 and E-3 analyzed for volatile organic compounds using U.S. EPA Method 8010/8020.
3. "<" = less than; concentration below laboratory reporting limit.

TABLE 4

INTERMEDIATE DEPTH SOIL GAS SAMPLE RESULTS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]				
			PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE
D1-35	35	02/09/95	81	24	344	6	148
D2-40	40	02/09/95	30	5	33	ND [2]	36
D3-10	10	02/09/95	3	10	ND	ND	ND
D3-20	20	02/09/95	3	12	ND	ND	ND
D3-30	30	02/09/95	ND	2	ND	ND	ND
D3-40	40	02/09/95	ND	4	ND	ND	ND
D4-40	40	02/09/95	ND	ND	ND	ND	ND

Notes:

1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8010/8020 include: PCE = tetrachloroethene; TCE = trichloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; 1,1-DCA = 1,1-dichloroethane; and 1,1-DCE = 1,1-dichloroethene.
2. ND = not detected.

TABLE 5

SOIL SAMPLE RESULTS FOR UNDERGROUND STORAGE TANKS 12, 13, 14 and 15

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per kilogram (µg/kg) [1, 2, 3]

Boring ID	Sample Depth	Sample Date	TPH-G	TPH-D	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes	PCE	TCE	1,2-DCA	1,2-DBA
T12-S	10	1995	NA[4]	NA	<10,000[5]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T12-N	10	1995	NA	NA	<10,000	<5.0	<5.0	<5.0	***8.2***	<5.0	<5.0	<5.0	<5.0
T12-N	13	1995	NA	NA	<10,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T12-D	3	1995	NA	NA	<10,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T13-N	13	03/15/95	<1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T13-S	13	03/15/95	<1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T13-D-N [6]	4	03/28/95	***18,000***	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T13-D-N [6]	10	03/28/95	***8,400***	NA	NA	***60***	***1,800***	***760***	***10,000***	***37***	<5.0	<5.0	***31***
T13-D-W [6]	4	03/28/95	***13,000,000***	NA	NA	<100	***250,000***	***130,000***	***910,000***	***7.9***	<1.0	***9.8***	***80***
T13-D-W [6]	10	03/28/95	***14,000,000***	NA	NA	<100	***550,000***	***150,000***	***980,000***	***17***	***39***	***30***	***250***
T13-D-E [6]	5	03/28/95	<1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	***1.9***	<1.0	<1.0	<1.0
T13-D-E [6]	10	03/28/95	<1,000	NA	NA	<5.0	***13***	<5.0	***50***	<1.0	<1.0	<1.0	<1.0
T13-D-B [6]	18	03/28/95	<1,000	NA	NA	<5.0	***18***	<5.0	***69***	<1.0	<1.0	<1.0	<1.0
T14-S	15	1995	<1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T14-N	15	1995	<1,000	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T15-W	15	1995	NA	<10,000	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
T15-E	15	1995	NA	<10,000	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:
1. Total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D) analyzed using U.S. Environmental Protection Agency (EPA) Method 8015M.
2. Total recoverable petroleum hydrocarbons (TRPH) analyzed using U.S. EPA Method 418.1.
3. BTEX (benzene, toluene, ethyl-benzene, and xylenes) and volatile halogenated hydrocarbons analyzed using U.S. EPA Method 8010/8020.
4. NA = not analyzed.
5. Concentration below laboratory reporting limit.
6. Only soil sample results for soil left in place at Underground Storage Tank 13 dispenser are reported.
   BOLD and italic values indicate detection.

Abbreviations:
PCE = tetrachloroethene
TCE = trichloroethene
1,2-DCA = 1,2-dichloroethane
1,2-DBA = 1,2-dibromoethane

TABLE 6

SOIL SAMPLE RESULTS FOR UNDERGROUND STORAGE TANKS IN THE COURTYARD

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per kilogram (µg/kg) [1, 2]

Boring ID	Sample Depth	Sample Date	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
3A	12 [4]	10/21/99	<5,000 [5]	<5.0	<5.0	<5.0	<10	<25
3B	12 [4]	10/21/99	<5,000	<5.0	<5.0	<5.0	<10	<25
3C	12 [4]	10/21/99	<5,000	<5.0	<5.0	<5.0	<10	**26**
4A [3]	10 [4]	10/21/99	<5,000	<5.0	<5.0	<5.0	<10	<5.0
4B [3]	10 [4]	10/21/99	<5,000	<5.0	<5.0	<5.0	<10	<5.0
B-1	5	11/01/99	<5,000	<1.0	<5.0	<5.0	***11***	<25
	10	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-2	5	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-3	5	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/01/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-4	10	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-5	5	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-6	5	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	35	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-7	5	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25

TABLE 6

SOIL SAMPLE RESULTS FOR UNDERGROUND STORAGE TANKS IN THE COURTYARD

Concentrations reported in micrograms per kilogram (µg/kg) [1, 2]

Boring ID	Sample Depth	Sample Date	TPH-D	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE
B-8	5	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-9	5	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/02/99	<5.0	***1.0***	<5.0	<5.0	<10	<25
	30	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/02/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-10	5	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-11	10	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-12	5	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	10	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-13	5	11/04/99	***1,900,000***	<1.0	<5.0	<5.0	<10	<25
	10	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	20	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/04/99	<5,000	<1.0	<5.0	<5.0	<10	<25
B-14	5	11/03/99	***2,100,000***	<1.0	<5.0	<5.0	<10	<25
	10	11/03/99	***960,000***	<1.0	<5.0	<5.0	<10	<25
	20	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	30	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25
	40	11/03/99	<5,000	<1.0	<5.0	<5.0	<10	<25

Notes:

1. Total petroleum hydrocarbons as diesel (TPH-D) analyzed using U.S. Environmental Protection Agency (EPA) Method 8015M.
2. BTEX and methyl tertiary butyl ether (MTBE) analyzed using U.S. EPA Method 8021B.
3. BTEX and MTBE analyzed using U.S. EPA Method 8260.
4. Depth measured from top of grade, soil sample collected from bottom of UST excavation.
5. "<" = less than; concentration below laboratory reporting limit.

TABLE 7

2004 SITE-WIDE SOIL GAS SAMPLE RESULTS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1,1-TCA
SV-1	5	May-04	4.7	ND [2]	ND
SV-2	5	May-04	ND	ND	ND
SV-3	5	May-04	8	ND	ND
SV-4	5	May-04	14.4	ND	ND
SV-8	5	May-04	12.1	ND	ND
SV-11	5	May-04	5	ND	ND
SV-12	5	May-04	23.7	5.6	ND
SV-13	5	May-04	28.8	4.4	ND
SV-14	5	May-04	52	5	ND
SV-15	5	May-04	7.4	ND	ND
SV-17	5	May-04	990.0	415.8	ND
SV-18	5	May-04	5.7	2.2	ND
SV-19	5	May-04	86.8	115.8	ND
SV-20	5	May-04	4	ND	ND
SV-21	5	May-04	3.4	ND	ND
SV-22	5	May-04	1.9	ND	ND
SV-31	5	May-04	2.4	ND	ND
SV-40	5	May-04	2.9	ND	ND
SV-41	5	May-04	5.2	ND	ND
SV-47	5	May-04	8.7	8.2	ND
SV-48	5	May-04	5.1	ND	ND
SV-50	5	May-04	141.7	379.1	ND
SV-51	5	May-04	17.1	43.4	ND
SV-52	5	May-04	12	3.1	ND
SV-53	5	May-04	1.3	ND	ND
SV-55	5	May-04	31.4	12.6	ND
SV-56	5	May-04	487.3	117.3	ND
SV-57	5	May-04	4.5	ND	7.2
SV-60	5	May-04	6.7	ND	ND
SV-61	5	06/02/04	2.2	ND	10
SV-62	5	06/02/04	3.9	ND	4.9
SV-63	5	06/02/04	5.8	ND	9.8
SV-64	5	06/02/04	3.3	ND	3.2
SV-65	5	06/02/04	4.0	ND	2.0
SV-66	5	06/02/04	ND	ND	ND
SV-67	5	06/02/04	ND	ND	ND

TABLE 7

2004 SITE-WIDE SOIL GAS SAMPLE RESULTS

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1,1-TCA
SV-68	5	06/02/04	ND	ND	ND
SV-69	5	06/02/04	ND	ND	ND
SV-70	5	06/02/04	ND	ND	ND
SV-71	5	06/02/04	ND	ND	ND
SV-72	5	06/02/04	ND	ND	ND
SV-73	5	06/02/04	ND	3.2	ND
SV-74	5	06/02/04	62.2	37.1	ND
SV-75	5	06/03/04	ND	ND	ND
SV-76	5	06/03/04	ND	ND	ND
SV-77	5	06/03/04	ND	ND	ND
SV-78	5	06/03/04	ND	ND	ND
SV-79	5	06/03/04	ND	ND	ND
SV-80	5	06/03/04	ND	ND	ND
SV-81	5	06/03/04	ND	ND	ND
SV-82	5	06/03/04	ND	3.2	ND
SV-83	5	06/03/04	65.8	130.3	ND
SV-84	5	06/03/04	11.3	11.4	ND
SV-85	5	06/03/04	36.4	153.4	ND
SV-86	5	06/03/04	1,059.5	1,507.0	ND
SV-87	5	06/03/04	580.8	218.9	ND
SV-88	5	06/03/04	1,241.2	2,629.5	ND
SV-89	5	06/03/04	114.4	103.5	ND
SV-90	5	06/03/04	750.0	659.5	ND
SV-91	5	06/03/04	81.7	249.2	ND

Notes:

1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8260 equivalent include: PCE = tetrachloroethene; TCE = trichloroethene; and 1,1,1-TCA = 1,1,1-trichloroethane.
2. ND = not detected.

TABLE 8

SOIL SAMPLE RESULTS FOR NESTED WELLS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per kilogram (µg/kg)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1-DCE
VW1	5	06/07/04	150	260	ND [2]
	10	06/07/04	11	16	ND
	15	06/07/04	16	67	ND
	20	06/07/04	ND	ND	ND
	25	06/07/04	180	2,100	ND
	30	06/07/04	ND	ND	ND
	40	06/07/04	ND	ND	ND
	45	06/07/04	57	7.4	ND
	50	06/07/04	440	34	ND
	55	06/07/04	11	ND	ND
	60	06/07/04	150	ND	ND
	65	06/07/04	ND	ND	ND
	70	06/07/04	78	ND	ND
	75	06/07/04	11	ND	ND
	80	06/07/04	ND	ND	ND
VW2	5	06/08/04	ND	ND	ND
	10	06/08/04	ND	ND	ND
	15	06/08/04	ND	ND	ND
	20	06/08/04	ND	ND	ND
	25	06/08/04	ND	ND	ND
	30	06/08/04	ND	ND	ND
	40	06/08/04	ND	ND	ND
	50	06/08/04	ND	ND	ND
	60	06/08/04	ND	ND	ND
	70	06/08/04	ND	ND	ND
	80	06/08/04	ND	ND	ND
VW3	5	06/07/04	46	25	7.6
	10	06/07/04	72	46	17
	15	06/07/04	140	93	36
	20	06/07/04	ND	ND	ND
	25	06/07/04	ND	ND	ND
	30	06/07/04	ND	ND	ND
	40	06/07/04	ND	ND	ND
	45	06/07/04	ND	ND	ND
	50	06/07/04	62	630	6
	55	06/07/04	ND	39	ND
	60	06/07/04	ND	72	ND

TABLE 8

SOIL SAMPLE RESULTS FOR NESTED WELLS

Concentrations reported in micrograms per kilogram (µg/kg)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1-DCE
VW3 cont.	65	06/07/04	ND	ND	ND
	70	06/07/04	ND	91	ND
	75	06/07/04	ND	ND	ND
	80	06/07/04	ND	ND	ND
VW4	5	06/08/04	ND	ND	ND
	10	06/08/04	ND	ND	ND
	15	06/08/04	ND	ND	ND
	20	06/08/04	ND	ND	ND
	25	06/08/04	ND	ND	ND
	30	06/08/04	ND	ND	ND
	40	06/08/04	ND	ND	ND
	50	06/08/04	ND	ND	ND
	60	06/08/04	ND	ND	ND
	70	06/08/04	ND	ND	ND
	80	06/08/04	7.7	ND	ND

Notes:

1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8260B include: PCE = tetrachloroethene, TCE = trichloroethene, and 1,1-DCE = 1,1-dichloroethene.
2. ND = not detected.

TABLE 9

SOIL GAS SAMPLE RESULTS FOR NESTED WELLS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds	
			Tetrachloroethene	Trichloroethene
VW1	20	06/15/04	406.1	607.4
VW1	40	06/15/04	337.3	1,512.3
VW1	60	06/15/04	161.6	1,045.5
VW1	80	06/15/04	238.7	345.4
VW2	20	06/15/04	4.3	21.2
VW2	40	06/15/04	25.2	172.3
VW2	60	06/15/04	62.4	324.3
VW2	80	06/15/04	17.4	167.3
VW3	20	06/15/04	697.3	764.3
VW3	40	06/15/04	503.3	2,114.7
VW3	60	06/15/04	170.9	1,441.5
VW3	80	06/15/04	196.8	1,290.4
VW4	20	06/15/04	ND	ND
VW4	40	06/15/04	1.3	2.8
VW4	60	06/15/04	1.9	4.6
VW4	80	06/15/04	2.1	22.7

Note:
ND = not detected.

TABLE 10

SOIL SAMPLE RESULTS FOR METALS and pH [1,2]

Crown City Plating Company
El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg) except for pH

Sample ID[3]	Sample Depth (feet below top of boring)	Antimony	Arsenic	Barium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Silver	Vanadium	Zinc	pH
AOC 1															
CC-10-17	17	ND[4]	ND	**17.4**	**15.7**	NA[5]	**2.81**	**13.1**	**5.20**	**1.80**	**5.37**	ND	**12.3**	**21.9**	**9.25**
CC-11-17	17	ND	ND	**20.3**	**5.64**	NA	**2.91**	**8.11**	**2.75**	ND	**3.17**	ND	**15.0**	**18.2**	**9.18**
CC-17-13	13	**0.7**	ND	**17.3**	**62.3**	**55.6**	**2.67**	**16.0**	**1.71**	ND	**6.03**	ND	**12.5**	**21.8**	**8.50**
CC-18-12	12	**1.33**	ND	**26.2**	**47.4**	**20.1**	**4.34**	**16.5**	**2.67**	ND	**4.85**	**1.07**	**35**	**23.3**	**9.99**
AOC 2															
CC-12-17	17	ND	ND	**29.1**	**11.3**	NA	**4.9**	**10.9**	**2.3**	ND	**5.86**	ND	**22.2**	**23.4**	**NA**
CC-13-17	17	ND	ND	**33.0**	**12.3**	NA	**5.52**	**12.3**	**2.94**	ND	**6.18**	ND	**25.6**	**25.2**	**NA**
CC-14-17	17	ND	ND	**24.9**	**11.4**	NA	**4.31**	**9.26**	**2.57**	ND	**5.1**	ND	**19.4**	**23.0**	**NA**
CC-15-17	17	**1.28**	**1.12**	**89.6**	**30.2**	NA	**15.3**	**33.3**	**6.79**	ND	**17.1**	ND	**75.6**	**70.3**	**NA**
AOC 3															
CC-16-17	17	**0.6**	ND	**21.0**	**10.0**	ND	**4.51**	**9.82**	**2.77**	ND	**4.58**	ND	**26.4**	**16.0**	**NA**
AOC 4															
CC-36-20	20	ND	ND	**22.2**	**11.0**	ND	**4.53**	**12.8**	**3.04**	ND	**11.5**	ND	**19.1**	**23.1**	**9.20**
CC-37-18	18	ND	ND	**27.2**	**6.43**	NA	**2.8**	**9.4**	**2.31**	ND	**3.03**	ND	**13.0**	**18.2**	**9.22**
AOC 5															
CC-19-16.5	16.5	**1.21**	ND	**27.1**	**28.0**	ND	**5.04**	**12.1**	**2.41**	ND	**7.5**	ND	**26.8**	**22.3**	**8.77**
CC-20-20	20	**1.54**	ND	**40.0**	**25.2**	NA	**8.42**	**19.7**	**4.92**	ND	**10.7**	**0.87**	**51.0**	**46.1**	**8.47**
CC-21-20	20	**1.2**	ND	**45.0**	**31.8**	9.86	**7.16**	**21.0**	**5.00**	ND	**8.85**	ND	**40.3**	**38.4**	**8.23**
CC-22-18	18	**1.34**	ND	**52.7**	**27.6**	NA	**10.2**	**23.1**	**5.10**	ND	**12.5**	ND	**53.3**	**48.2**	**7.72**
AOC 6															
CC-33-20	20	**1.93**	ND	**39.4**	**151**	11.7	**6.98**	**59.3**	**4.5**	ND	**54.8**	ND	**30.8**	**36.9**	**5.02**
AOC 7															
CC-3-20	20	**1.17**	ND	**62.9**	**25.8**	ND	**11.2**	**28.1**	**6.57**	ND	**13.7**	ND	**58.9**	**56.9**	**7.70**
CC-4-20	20	**0.82**	ND	**42.5**	**19.7**	NA	**9.11**	**21.1**	**4.66**	ND	**10.8**	ND	**48.2**	**42.2**	**8.23**
AOC 8															
CC-5-20	20	**1.28**	ND	**68.5**	**25.5**	ND	**12.1**	**26.4**	**5.71**	ND	**14**	ND	**62.4**	**56.7**	**8.75**
CC-6-20	20	**1.33**	ND	**71.1**	**26.2**	NA	**12.7**	**26.6**	**6.07**	ND	**14.6**	ND	**61.4**	**59.6**	**8.58**
AOC 9															
CC-7-20	20	**0.85**	ND	**38.3**	**20.9**	NA	**7.75**	**20.0**	**4.48**	ND	**10.0**	ND	**46.6**	**38.7**	**9.11**
CC-8-20	20	**1.02**	ND	**57.5**	**26.3**	ND	**11.5**	**26.7**	**5.77**	ND	**13.4**	ND	**29.8**	**54.0**	**8.48**
AOC 10															
CC-27-20	20	**1.02**	ND	**43.4**	**21.1**	NA	**8.0**	**20.7**	**4.71**	ND	**9.84**	ND	**41.0**	**38.5**	**NA**
CC-28-20	20	**0.72**	ND	**24.2**	**12.4**	NA	**4.67**	**11.8**	**3.1**	ND	**5.6**	ND	**26.2**	**22.8**	**NA**

TABLE 10

SOIL SAMPLE RESULTS FOR METALS and pH [1,2]

Concentrations reported in milligrams per kilogram (mg/kg) except for pH

Sample ID[3]	Sample Depth (feet below top of boring)	Antimony	Arsenic	Barium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Silver	Vanadium	Zinc	pH
AOC 11															
CC-29-20	20	**1.2**	ND	**46.0**	**21.1**	NA	**12.3**	**21.2**	**5.23**	ND	**10.6**	ND	**44.6**	**42.0**	**NA**
CC-30-20	20	**0.76**	ND	**32.0**	**19.0**	NA	**6.36**	**16.6**	**4.16**	ND	**8.0**	ND	**37.2**	**32.5**	**NA**
AOC 12															
CC-9-20	20	ND	ND	**21.4**	**8.6**	NA	**4.04**	**8.11**	**2.41**	ND	**4.51**	ND	**18.9**	**18.9**	**8.91**
CC-31-20	20	ND	ND	**16.1**	**6.1**	NA	**2.5**	**5.66**	**2.0**	ND	**2.83**	ND	**10.5**	**14.3**	**NA**
CC-32-20	20	ND	ND	**16.6**	**6.16**	NA	**3.0**	**7.0**	**3.0**	ND	**2.74**	ND	**12.6**	**19.0**	**NA**
AOC 13															
CC-23-10	10	**0.62**	ND	**19.2**	**11.5**	ND	**3.84**	**9.35**	**2.16**	ND	**4.3**	ND	**23.3**	**17.4**	**8.00**
CC-24-15	15	**1.02**	ND	**24.0**	**14.0**	ND	**5.0**	**13.1**	**4.2**	ND	**6.0**	**0.9**	**25.0**	**24.4**	**9.16**
CC-25-17	17	ND	ND	**15.8**	**5.18**	NA	**2.69**	**5.92**	**2.0**	ND	**2.5**	**1.03**	**10.6**	**11.9**	**8.70**
CC-26-20	20	ND	ND	**16.4**	**10.5**	NA	**2.36**	**6.56**	**2.35**	ND	**3.0**	ND	**15.0**	**13.3**	**8.43**
AOC 14															
CC-38-17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC-39-18	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC-40-17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC-41-17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CC-42-16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 15															
CC-1-15	15	ND	ND	**26.8**	**11.0**	ND	**4.71**	**14.0**	**2.41**	ND	**6.7**	ND	**25.4**	**22.0**	**8.80**
CC-2-20	20	ND	ND	**16.8**	**6.7**	NA	**2.9**	**130**	**1.79**	ND	**109**	ND	**12.5**	**15.7**	**6.44**
AOC 16															
CC-34-9	9 [6]	**0.74**	ND	**33.0**	**23.2**	**15.9**	**5.86**	**16.6**	**4.00**	ND	**6.51**	ND	**23.4**	**31.1**	**8.39**
CC-35-8	8 [6]	ND	ND	**33.7**	**19.0**	NA	**5.6**	**14.4**	**3.33**	ND	**6.52**	ND	**25.8**	**31.6**	**7.81**

Notes:
1. Title 22 metals using Environmental Protection Agency (EPA) Method 6010B/7471A, hexavalent chromium using EPA Method 7199, and pH using EPA Method 9045C.
2. All results for beryllium, cadmium, selenium, thallium, and mercury were below laboratory reporting limits.
3. AOC = Area of Concern.
4. ND = not detected (analyte below laboratory reporting limits).
5. NA = not analyzed.
6. Sample collected at 8 and 9 feet below depth of basement equal to approximately 19 and 18 feet below general site grade.

TABLE 11

BACKGROUND SOIL SAMPLES RESULTS FOR METALS [1,2]

Crown City Plating Company
El Monte, California

Concentrations reported in milligrams per kilogram (mg/kg)

Sample ID	Antimony	Arsenic	Barium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	Nickel	Silver	Vanadium	Zinc
Background 1 (1-foot bgs)[3]	1.06	2.48	105	ND[4]	37.5	0.54	14.8	62.3	42.0	21.6	ND	75.6	132
Background 2 (1-foot bgs)	1.95	2.46	102	4.17	40.1	1.53	16.4	92.0	92.6	32.0	1.01	53.4	240

Notes:
1. Title 22 metals using Environmental Protection Agency (EPA) Method 6010B/7471A and hexavalent chromium using EPA Method 7199.
2. All results for beryllium, molybdenum, selenium, thallium, and mercury were below laboratory reporting limits.
3. Background samples were collected from grassy/vegetation area in northwest quadrant of property near Temple City Boulevard; bgs = below ground surface.
4. ND = not detected (analyte below laboratory reporting limits).

TABLE 12

GROUNDWATER SAMPLE RESULTS FOR MONITORING WELLS E-1, E-2, and E-3

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L) [1]

Well ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCE	cis-1,2-DCE	Ethylbenzene
E-1	01/25/89[2]	***150***	***300***	***45***	***15***	ND [3]	ND
	08/04/89[2]	***140***	***310***	***44***	***20***	ND	ND
	02/02/90[2]	***65***	***220***	***18***	***3***	ND	ND
	11/11/93	***600***	***530***	ND	<120	***0.6***	ND
	02/18/94	***180***	***130***	***33***	***18***	ND	ND
	07/24/95	***60***	***290***	***5***	***16***	ND	ND
	08/23/95	***100***	***270***	***7.5***	***18***	ND	ND
	09/13/95	***57***	***300***	ND	***8.5***	ND	ND
	11/02/95	***50***	***180***	***5.3***	***8.6***	ND	ND
	01/17/96	***48***	***220***	ND	***7.7***	ND	***6.6***
	08/27/96	***57***	***320***	***6.1***	***12***	ND	ND
	10/15/96	***63***	***340***	***6.3***	***12***	ND	ND
	01/17/97	***48***	***220***	ND	***7.7***	ND	***6.6***
	02/14/97	***64***	***360***	ND	ND	ND	ND
	05/16/97	***70***	***480***	ND	ND	ND	ND
	08/15/97	***68***	***62***	ND	ND	ND	ND
	11/14/97	***98***	***1,100***	ND	ND	ND	ND
	02/10/98	***130***	***1,200***	ND	ND	ND	ND
	04/21/98	***53***	***400***	ND	ND	ND	ND
E-2	02/02/90[2]	<20	***2,000***	<20	<20	ND	ND
	11/11/90	***26***	***740***	***4.6***	***36***	***2***	ND
	02/18/94	ND	***580***	ND	ND	ND	ND
	03/08/95	***8.3***	***300***	ND	ND	ND	ND
	07/24/95	***11***	***290***	ND	***8***	ND	ND
	01/17/96	***13***	***200***	ND	ND	ND	ND
	08/27/96	***37***	***900***	ND	ND	ND	ND
	10/15/96	***54***	***1,300***	ND	ND	ND	ND
	01/05/97	***120***	***3,600***	ND	ND	ND	ND
	01/17/97	***13***	***200***	ND	ND	ND	ND
	02/14/97	ND	***800***	ND	ND	ND	ND
	05/16/97	ND	***1,900***	ND	ND	ND	ND
	08/15/97	ND	***1,200***	ND	ND	ND	ND
	09/05/97	***120***	***3,600***	ND	ND	ND	ND
	11/14/97	***100***	***3,600***	ND	ND	ND	ND
	02/10/98	ND	***3,500***	ND	ND	ND	ND
	04/21/98	***33***	***790***	ND	ND	ND	ND

TABLE 12

GROUNDWATER SAMPLE RESULTS FOR MONITORING WELLS E-1, E-2, and E-3

Concentrations reported in micrograms per liter (µg/L) [1]

Well ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCE	cis-1,2-DCE	Ethylbenzene
E-3	02/02/90[2]	***1***	***9***	***1*** [4]	***1*** [4]	ND	ND
	11/11/90	***34***	***730***	ND	***13***	***0.6***	ND
	02/18/94	***14***	***370***	ND	ND	ND	ND
	03/08/95	***9.7***	***99***	ND	ND	ND	ND
	07/24/95	***15***	ND	ND	ND	ND	ND
	01/17/96	***11***	***66***	ND	ND	ND	ND
	08/27/96	***11***	***150***	ND	ND	ND	ND
	10/15/96	***16***	***160***	ND	ND	ND	ND
	01/17/97	***11***	***66***	ND	ND	ND	ND
	02/14/97	***13***	***120***	ND	ND	ND	ND
	05/16/97	***17***	***190***	ND	ND	ND	ND
	08/15/97	***17***	***240***	ND	ND	ND	ND
	11/14/97	***20***	***280***	ND	ND	ND	ND
	02/10/98	***25***	***270***	ND	ND	ND	ND
	04/21/98	***16***	***190***	ND	ND	ND	ND

Notes:

1. Volatile organic compounds (VOCs) analyzed using U.S. Environmental Protection Agency (EPA) Method 8260B (unless otherwise indicated) includes: PCE = tetrachloroethene; TCE = trichloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; 1,1-DCE = 1,1-dichloroethene; and cis-1,2-DCE = cis-1,2-dichloroethene. **BOLD** and italic values indicate detection.
2. VOCs analyzed using U.S. EPA Method 624.
3. ND = not detected.
4. Results reported in historic data tables as both 1.0 micrograms per liter (µg/L) and less than (<) 1 µg/L; unable to confirm.

TABLE 13

CONSTRUCTION DETAILS FOR MONITORING WELLS E-1, E-2, and E-3

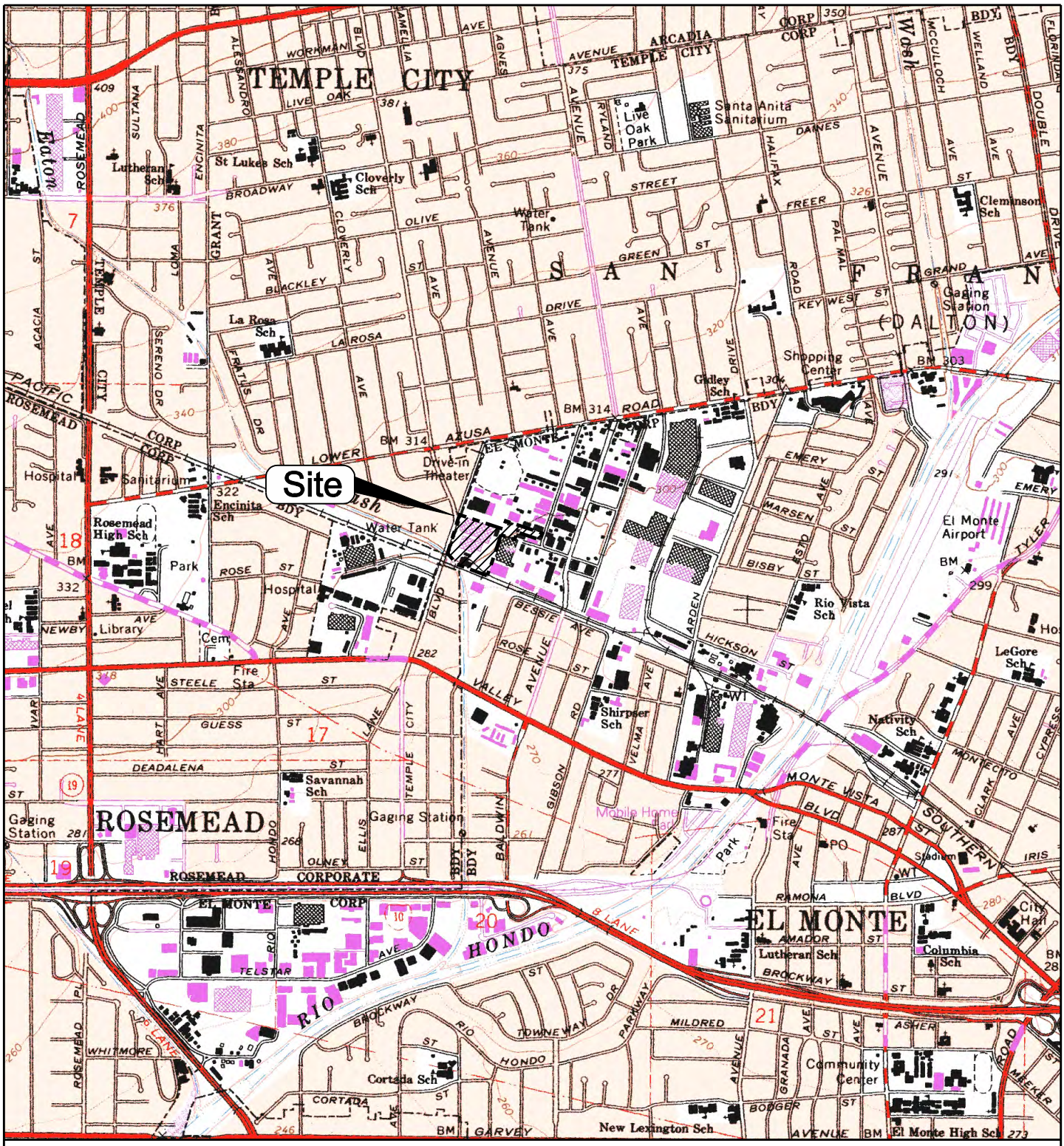
Crown City Plating Company
El Monte, California

Well ID	Completion Date	Total Depth	Casing Diameter (inch)	Casing Material	Screen Interval (ft bgs)[1]		Screen Material[2]	Filter Pack (ft bgs)		Bentonite Seal (ft bgs)		Annular Seal (ft bgs)		Static Water Level (ft bgs)
					from	to		from	to	from	to	from	to	
E-1	01/24/89	95	2	Sch.40 PVC	65	95	0.020-in slotted Sch. 40 PVC	63	95	53	63	0	53	74
E-2	01/24/90	103.5	4	Sch.40 PVC	73.5	103.5	0.010-in slotted Sch. 40 stainless steel	70	103.5	65	70	0	65	82.5
E-3	01/23/90	107	4	Sch.40 PVC	77	107	0.010-in slotted Sch. 40 stainless steel	75	107	70	75	0	70	90

Notes:
1. ft bgs = feet below ground surface.
2. PVC = polyvinyl chloride.

FIGURES

SSI Work Plan (AMEC, 2010a)



Basemap modified from U.S.G.S. 7.5 minute Quadrangle Map El Monte 1966, California. Photo-revised 1981 and minor revision 1994.

Approximate Scale in Feet
0 1000 2000
0 300 600
Approximate Scale in Meters

SITE LOCATION MAP
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 1

Y:\13024.006.0\dgn\Rl Work Plan 2009.dgn

Ellis Lane

Temple City Boulevard

Central Parcel

Paint Dept.

Polishing Dept.

Plastic Plating Department

Maintenance

Molding Dept.

PBR #1

Admin. Office

Metal Plating Deptartment

PBR #2

Warehouse

Courtyard

Shipping and Receiving

PBR #3

Waterwater Treatment Area

Plastic Plating Department

Southern Parcel (Leased from Southern Pacific Transportation Company)

Storage

Office and Warehouse

Drum Storage Area

Eaton Wash

Union Pacific Railroad

E-1

E-2

Drainage Ditch

Eastern Parcel

E-3

Storage

Gate

Concrete Bridge

Decorative Paint Dept.

Rowland Avenue

Explanation

- ⊕ Water production well location
- Monitoring well location
- Concrete pad
- PRB #1 ▯ Permit-By-Rule (PBR) unit
- Property boundary
- Railroad tracks
- Fence line

Note:

All locations are approximate.

Approximate Scale in Feet

0 50 100

0 15 30

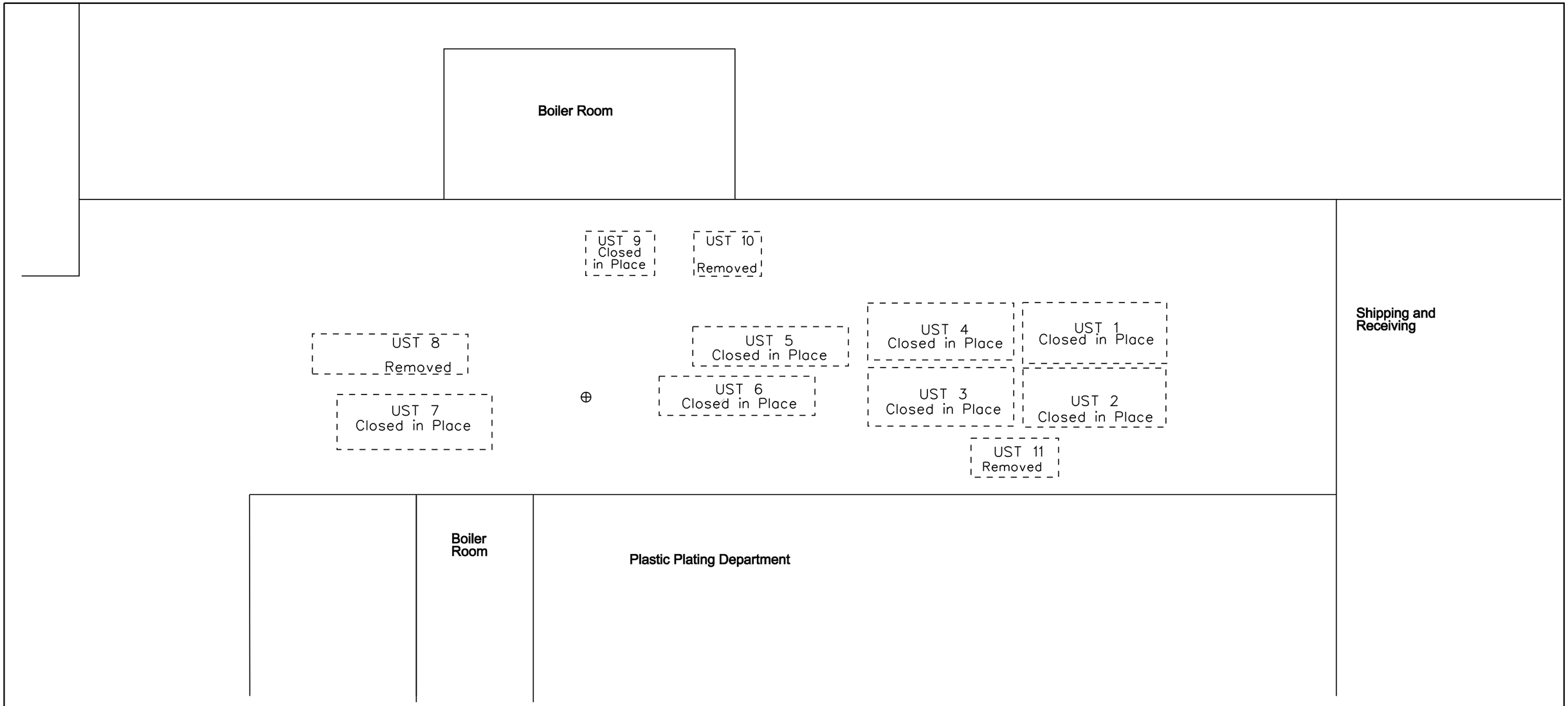
Approximate Scale in Meters

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

SITE PLAN
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date:01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 2

Y:\13024.006.0\dgn\Ri Work Plan 2009.dgn



Explanation

⊕ Water production well location

UST 11 Former UST location and designation

Notes:

1. All locations are approximate.
2. Fuel lines in the area of the USTs were directed towards the Boiler Rooms.

Underground Storage Tank Information	
No.	Use
1	Diesel No. 2
2	Diesel No. 2
3	Diesel No. 2
4	Diesel No. 2
5	Diesel No. 2
6	Absorbtion oil
7	Diesel No. 2
8	Diesel No. 2
9	Diesel No. 2
10	Absorbtion oil
11	Nitric acid

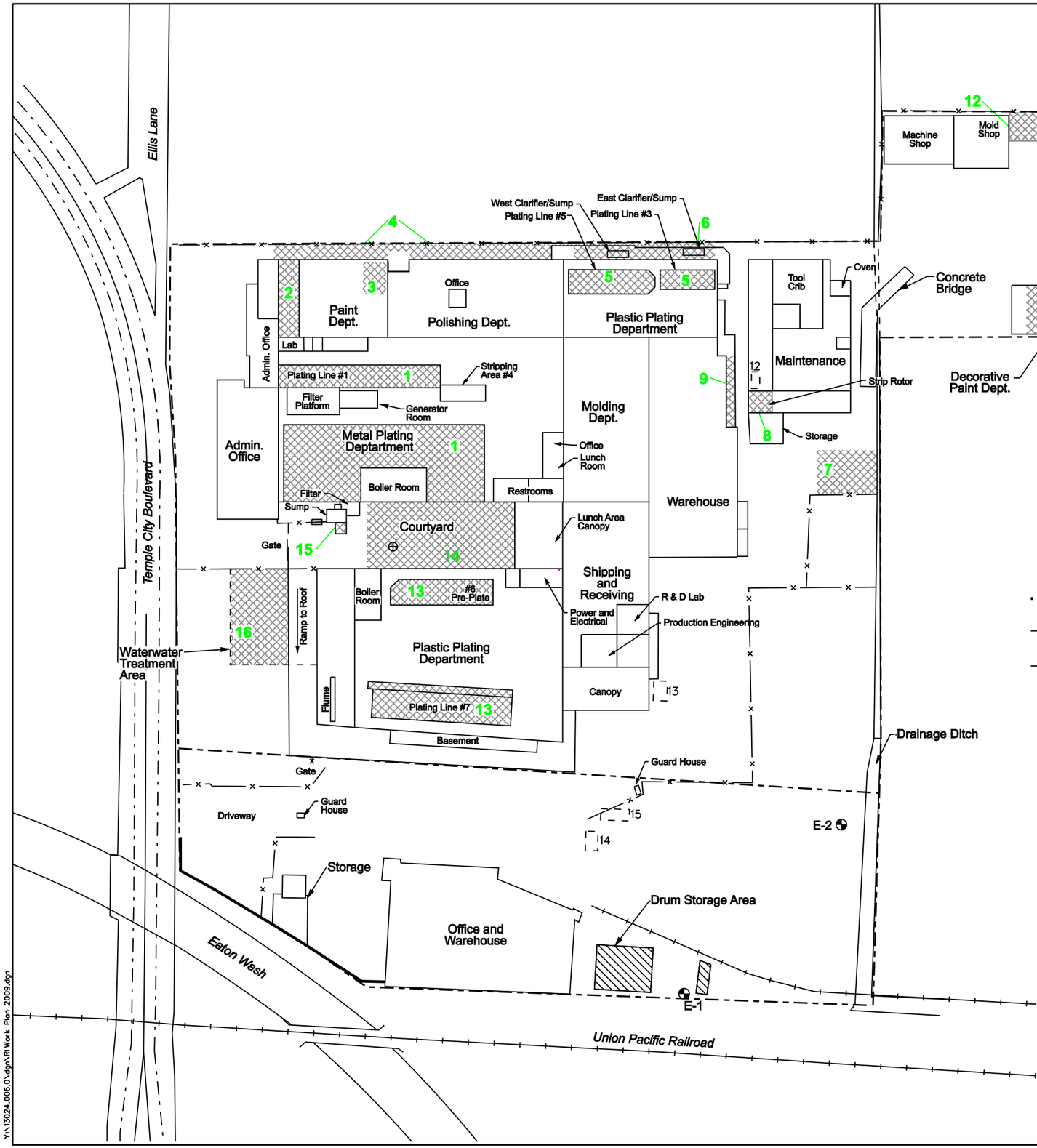
Approximate Scale in Feet
0 10 20
0 3 6
Approximate Scale in Meters

Basemap modified from Figures 2 and 3, Tank Sampling Locations, American Integrated Services, Inc., December 7, 1999; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

UNDERGROUND STORAGE TANK (UST)
LOCATIONS IN THE COURTYARD
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date:01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 3

Y:\13024.006.D\dgn\RI Work Plan 2009.dgn



Explanation

- ⊕ Water production well location
- Monitoring well location
- 15 Underground tank number and location (USTs 1-11 are shown on Figure 3)
- Property boundary
- Railroad tracks
- Fence line
- Concrete pad
- 16 Area of concern and designation

Underground Storage Tank Information	
No.	Use
12	Waste oil
13	Regular gasoline
14	Unleaded gasoline
15	Diesel

Note:

All locations are approximate.

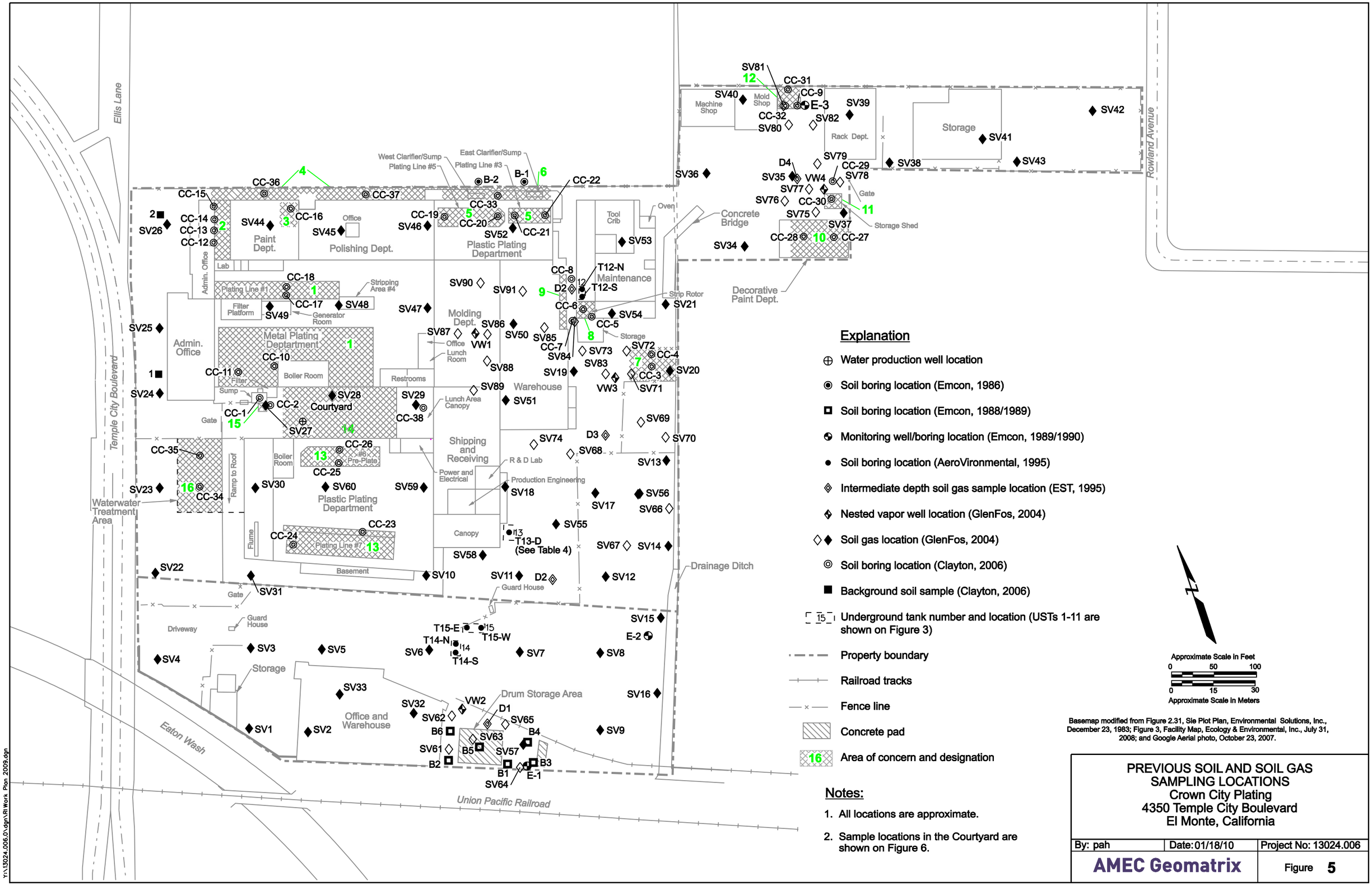
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

FACILITY PLOT PLAN
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date:12/22/09	Project No: 13024.006
AMEC Geomatrix		Figure 4

Y:\13024.006.0\dgn\RI Work Plan 2009.dgn

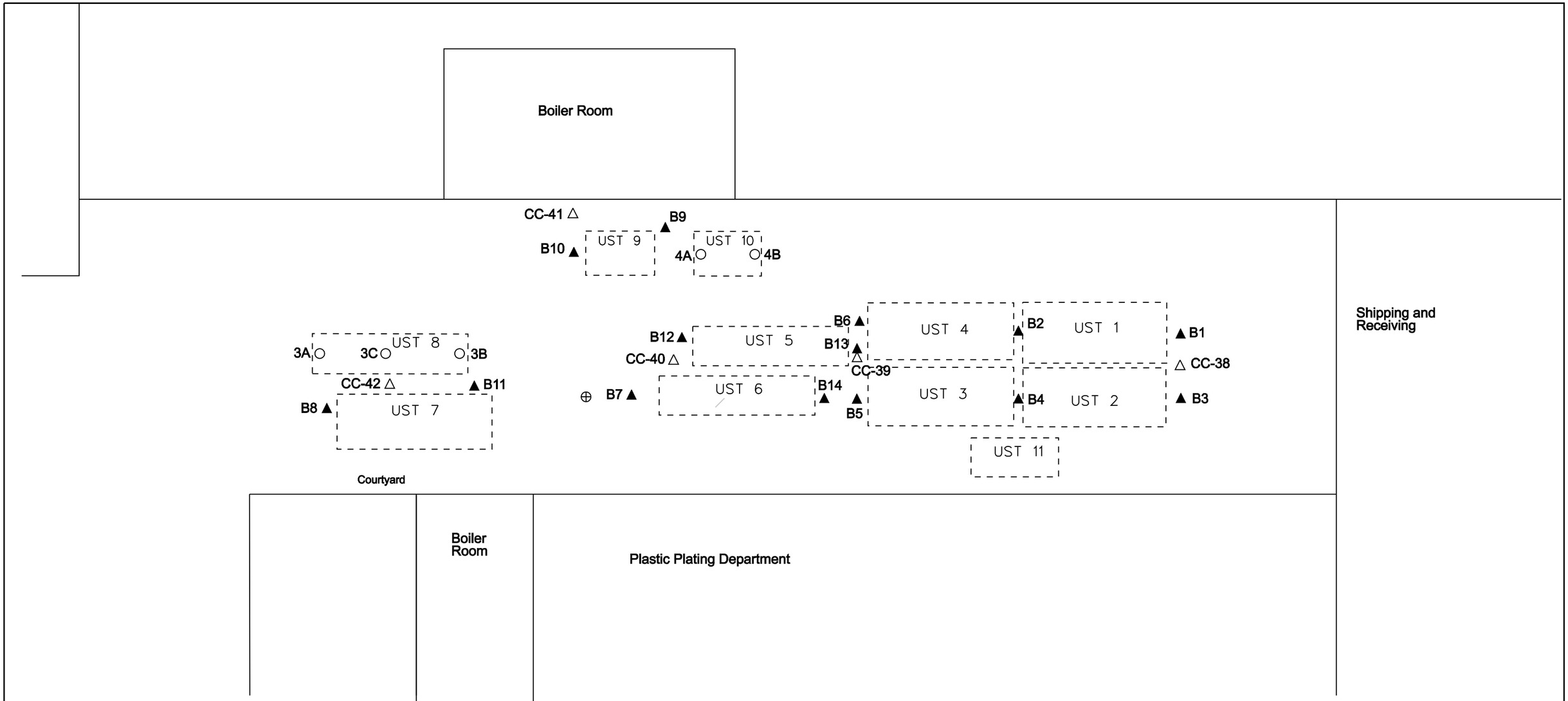


Basemap modified from Figure 2.31, Sie Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PREVIOUS SOIL AND SOIL GAS SAMPLING LOCATIONS
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 5

Y:\13024.006.0\dgn\RI Work Plan 2009.dgn



Explanation

- ⊕ Water production well location
- 4A ○ Soil sample location (American Integrated, 1999)
- B14 ▲ Soil boring location (American Integrated, 1999)
- CC-38 △ Soil boring location (Clayton, 2006)
- UST 11 Former UST location and designation

Note:

1. All locations are approximate.
2. Fuel lines in the area of the USTs were directed towards the Boiler Rooms.

Underground Storage Tank Information	
No.	Use
1	Diesel No. 2
2	Diesel No. 2
3	Diesel No. 2
4	Diesel No. 2
5	Diesel No. 2
6	Absorbtion oil
7	Diesel No. 2
8	Diesel No. 2
9	Diesel No. 2
10	Absorbtion oil
11	Nitric acid

Approximate Scale in Feet
0 10 20
0 3 6
Approximate Scale in Meters

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PREVIOUS SOIL SAMPLING LOCATIONS IN COURTYARD
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 6

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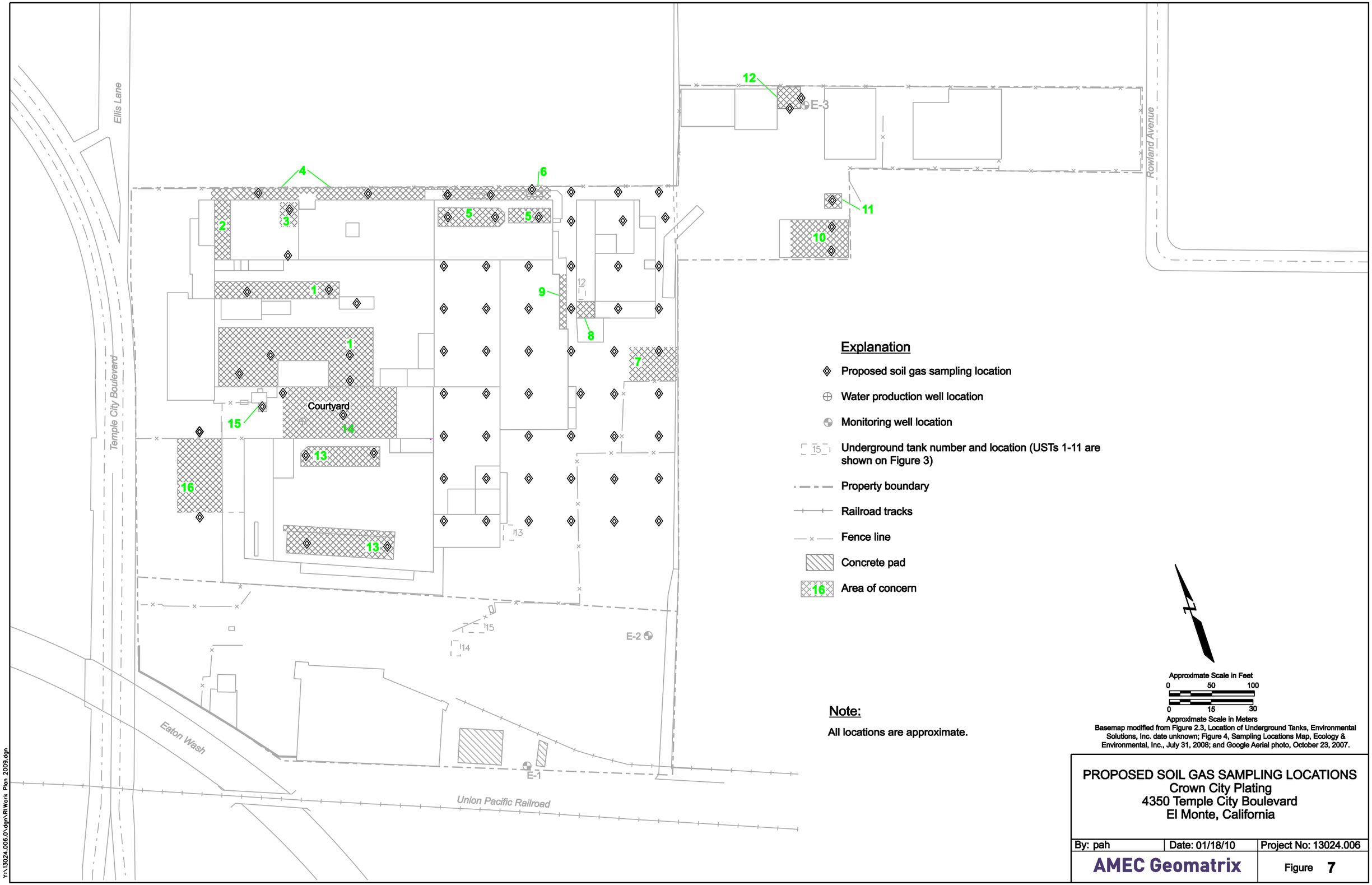
Ellis Lane
Temple City Boulevard
Rowland Avenue
Courtyard
Eaton Wash
Union Pacific Railroad
E-1
E-2
E-3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Explanation
Proposed soil gas sampling location
Water production well location
Monitoring well location
Underground tank number and location (USTs 1-11 are shown on Figure 3)
Property boundary
Railroad tracks
Fence line
Concrete pad
Area of concern
Note:
All locations are approximate.
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters
Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.
PROPOSED SOIL GAS SAMPLING LOCATIONS
Crown City Plating
4350 Temple City Boulevard
El Monte, California
By: pah
Date: 01/18/10
Project No: 13024.006
AMEC Geomatrix
Figure 7
Y:\13024.006.0\dgn\Ri Work Plan 2009.dgn

Explanation

- Proposed soil sampling location
- Water production well location
- Monitoring well location
- 15 Underground tank number and location (USTs 1-11 are shown on Figure 3)
- Property boundary
- Railroad tracks
- Fence line
- Concrete pad
- 16 Area of concern

Note:

All locations are approximate.

Approximate Scale in Feet

0 50 100

0 15 30

Approximate Scale in Meters

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PROPOSED SOIL SAMPLING LOCATIONS
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 8

Y:\13024.006.0\dgn\RI Work Plan 2009.dgn

APPENDIX B

Rain Water Laboratory Reports and Waste Manifests

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-02-1688

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/01/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Work Order Number: 12-02-1688

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Calscience Environmental Laboratories, Inc.

Client:	AMEC Environment & Infrastructure 121 Innovation Drive Suite 200	Work Order:	12-02-1688
		Project Name:	Crown City Plating Company / NB1016075
		Received:	02/28/12 18:33
Attn:	Joseph Bahde		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
P7756						
Barium	**0.0577**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Cadmium	**0.0195**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Chromium	**1.11**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Cobalt	**0.0101**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Copper	**0.709**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Nickel	**6.83**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Zinc	**1.92**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Chromium, Hexavalent	**1200**		20	ug/L	EPA 7199	N/A
pH	**7.01**		0.01	pH units	SM 4500 H+ B	N/A
Chloroform	**1.0**		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	**2.5**		1.0	ug/L	EPA 8260B	EPA 5030C
P7182						
Arsenic	**0.0196**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Barium	**0.0725**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Cadmium	**0.0209**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Chromium	**129**		0.100	mg/L	EPA 6010B	EPA 3010A Total
Cobalt	**0.0252**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Copper	**1.09**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Molybdenum	**0.0172**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Nickel	**8.62**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Thallium	**0.0191**		0.0150	mg/L	EPA 6010B	EPA 3010A Total
Vanadium	**0.0386**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Zinc	**2.29**		0.0100	mg/L	EPA 6010B	EPA 3010A Total
Chromium, Hexavalent	**160000**		2000	ug/L	EPA 7199	N/A
pH	**7.54**		0.01	pH units	SM 4500 H+ B	N/A
Cyanide, Total	**0.020**		0.020	mg/L	SM 4500-CN E	N/A
Mercury	**0.00136**		0.000500	mg/L	EPA 7470A	EPA 7470A Total
Chloroform	**1.1**		1.0	ug/L	EPA 8260B	EPA 5030C
Tetrachloroethene	**3.2**		1.0	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

*MDL is shown.

Return to Contents

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B
		Units:	ug/L

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P7756	**12-02-1688-1-A**	**02/28/12 15:45**	**Aqueous**	**GC/MS Q**	**02/28/12**	**02/28/12 22:29**	**120228L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	1.0	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	2.5	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	80-120		Dibromofluoromethane	97	80-126	
1,2-Dichloroethane-d4	98	80-134		Toluene-d8	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B
		Units:	ug/L

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P7182	**12-02-1688-2-A**	**02/28/12 16:10**	**Aqueous**	**GC/MS Q**	**02/28/12**	**02/28/12 22:56**	**120228L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	1.1	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	3.2	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	95	80-120		Dibromofluoromethane	99	80-126	
1,2-Dichloroethane-d4	99	80-134		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B
		Units:	ug/L

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-14-001-7,138**	**N/A**	**Aqueous**	**GC/MS Q**	**02/28/12**	**02/28/12 20:15**	**120228L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	20	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	96	80-120		Dibromofluoromethane	100	80-126	
1,2-Dichloroethane-d4	102	80-134		Toluene-d8	100	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: 02/28/12
Work Order No: 12-02-1688
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
P7756	**12-02-1688-1-D**	**02/28/12 15:45**	**Aqueous**	**ICP 5300**	**02/28/12**	**02/29/12 14:29**	**120228LA2**

Comment(s): -Mercury analysis was performed on 02/29/12 12:57 with batch 120228L01.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Molybdenum	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	6.83	0.0100	1	
Barium	0.0577	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	0.0195	0.0100	1		Thallium	ND	0.0150	1	
Chromium	1.11	0.0100	1		Vanadium	ND	0.0100	1	
Cobalt	0.0101	0.0100	1		Mercury	ND	0.000500	1	
Copper	0.709	0.0100	1		Zinc	1.92	0.0100	1	
Lead	ND	0.0100	1						

P7182	**12-02-1688-2-G**	**02/28/12 16:10**	**Aqueous**	**ICP 5300**	**02/28/12**	**02/29/12 14:33**	**120228LA2**

Comment(s): -Mercury analysis was performed on 02/29/12 12:59 with batch 120228L01.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Molybdenum	0.0172	0.0100	1	
Arsenic	0.0196	0.0100	1		Nickel	8.62	0.0100	1	
Barium	0.0725	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	0.0209	0.0100	1		Thallium	0.0191	0.0150	1	
Chromium	129	0.100	10		Vanadium	0.0386	0.0100	1	
Cobalt	0.0252	0.0100	1		Mercury	0.00136	0.000500	1	
Copper	1.09	0.0100	1		Zinc	2.29	0.0100	1	
Lead	ND	0.0100	1						

Method Blank	**099-04-008-5,860**	**N/A**	**Aqueous**	**Mercury**	**02/28/12**	**02/28/12 16:53**	**120228L01**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 7470A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: 02/28/12
Work Order No: 12-02-1688
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-003-12,399**	**N/A**	**Aqueous**	**ICP 5300**	**02/28/12**	**02/28/12 18:57**	**120228LA2**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.0100	1	
Barium	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.0100	1		Vanadium	ND	0.0100	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: 02/28/12
Work Order No: 12-02-1688

Project: Crown City Plating Company / NB1016075

Client Sample Number	Lab Sample Number	Date Collected	Matrix
P7756	**12-02-1688-1**	**02/28/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	1200	20	20		ug/L	N/A	02/28/12	EPA 7199
pH	7.01	0.01	1		pH units	N/A	02/28/12	SM 4500 H+ B
Cyanide, Total	ND	0.020	1		mg/L	02/29/12	02/29/12	SM 4500-CN E

P7182	**12-02-1688-2**	**02/28/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	160000	2000	2000		ug/L	N/A	02/28/12	EPA 7199
pH	7.54	0.01	1		pH units	N/A	02/28/12	SM 4500 H+ B
Cyanide, Total	0.020	0.020	1		mg/L	02/29/12	02/29/12	SM 4500-CN E

Method Blank		**N/A**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	02/28/12	EPA 7199
Cyanide, Total	ND	0.020	1		mg/L	02/29/12	02/29/12	SM 4500-CN E

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 3010A Total
Irvine, CA 92617-3094		Method:	EPA 6010B

Project Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1591-2	**Aqueous**	**ICP 5300**	**02/28/12**	**02/28/12**	**120228SA2**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	0.5000	99	101	72-132	2	0-10	
Arsenic	0.5000	97	98	80-140	1	0-11	
Barium	0.5000	115	118	87-123	1	0-6	
Beryllium	0.5000	111	112	89-119	0	0-8	
Cadmium	0.5000	108	109	82-124	1	0-7	
Chromium	0.5000	110	111	86-122	1	0-8	
Cobalt	0.5000	116	117	83-125	1	0-7	
Copper	0.5000	111	113	78-126	1	0-7	
Lead	0.5000	111	112	84-120	1	0-7	
Molybdenum	0.5000	108	109	78-126	1	0-7	
Nickel	0.5000	111	112	84-120	1	0-7	
Selenium	0.5000	105	106	79-127	1	0-9	
Silver	0.2500	108	112	86-128	4	0-7	
Thallium	0.5000	113	115	79-121	1	0-8	
Vanadium	0.5000	108	109	88-118	1	0-7	
Zinc	0.5000	109	115	89-131	1	0-8	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

AMEC Environment & Infrastructure		Date Received	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 3010A Total
Irvine, CA 92617-3094		Method:	EPA 6010B

Project: Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-02-1591-2	**Aqueous**	**ICP 5300**	**02/28/12**	**02/28/12**	**120228SA2**

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	0.5000	91	91	75-125	1	0-10	
Arsenic	0.5000	86	87	75-125	0	0-11	
Barium	0.5000	104	104	75-125	0	0-6	
Beryllium	0.5000	100	102	75-125	2	0-8	
Cadmium	0.5000	99	98	75-125	1	0-7	
Chromium	0.5000	98	98	75-125	0	0-8	
Cobalt	0.5000	106	105	75-125	0	0-7	
Copper	0.5000	103	101	75-125	1	0-7	
Lead	0.5000	103	103	75-125	0	0-7	
Molybdenum	0.5000	99	99	75-125	0	0-7	
Nickel	0.5000	101	101	75-125	0	0-7	
Selenium	0.5000	97	98	75-125	1	0-9	
Silver	0.2500	88	93	75-125	5	0-7	
Thallium	0.5000	105	105	75-125	0	0-8	
Vanadium	0.5000	97	97	75-125	0	0-7	
Zinc	0.5000	102	94	75-125	2	0-8	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 7470A Total
Irvine, CA 92617-3094		Method:	EPA 7470A

Project Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1591-3	**Aqueous**	**Mercury**	**02/28/12**	**02/28/12**	**120228S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	36	63	57-141	55	0-10	3,4

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - PDS / PDSD

AMEC Environment & Infrastructure		Date Received	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 7470A Total
Irvine, CA 92617-3094		Method:	EPA 7470A

Project: Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
12-02-1591-3	**Aqueous**	**Mercury**	**02/28/12**	**02/28/12**	**120228S01**

Parameter	SPIKE ADDED	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	44	44	75-125	0	0-10	5

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	02/28/12
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B

Project Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-02-1594-1	**Aqueous**	**GC/MS Q**	**02/28/12**	**02/28/12**	**120228S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	95	95	78-120	1	0-20	
Carbon Tetrachloride	50.00	89	89	67-139	0	0-20	
Chlorobenzene	50.00	97	95	80-120	1	0-20	
1,2-Dibromoethane	50.00	96	96	80-123	0	0-20	
1,2-Dichlorobenzene	50.00	100	98	76-120	3	0-20	
1,2-Dichloroethane	50.00	98	97	76-130	1	0-20	
1,1-Dichloroethene	50.00	86	87	70-130	1	0-27	
Ethylbenzene	50.00	99	97	73-127	3	0-20	
Toluene	50.00	96	95	72-126	1	0-20	
Trichloroethene	50.00	99	95	74-122	3	0-20	
Vinyl Chloride	50.00	91	90	65-131	1	0-24	
Methyl-t-Butyl Ether (MTBE)	50.00	95	95	69-123	0	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: N/A
Work Order No: 12-02-1688

Project: Crown City Plating Company / NB1016075

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Analyzed	Date Extracted	MS% REC	MSD % REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	EPA 7199	12-02-1674-2	02/28/12	N/A	101	102	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: N/A
Work Order No: 12-02-1688

Project: Crown City Plating Company / NB1016075

Matrix: Aqueous or Solid

Parameter	Method	QC Sample ID	Date Analyzed	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
pH	SM 4500 H+ B	P7756	02/28/12	7.01	7.05	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 3010A Total
Irvine, CA 92617-3094		Method:	EPA 6010B

Project: Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-12,399	**Aqueous**	**ICP 5300**	**02/28/12**	**02/28/12**	**120228LA2**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	0.5000	106	109	80-120	73-127	2	0-20	
Arsenic	0.5000	105	107	80-120	73-127	2	0-20	
Barium	0.5000	114	115	80-120	73-127	1	0-20	
Beryllium	0.5000	108	108	80-120	73-127	0	0-20	
Cadmium	0.5000	108	109	80-120	73-127	1	0-20	
Chromium	0.5000	108	109	80-120	73-127	1	0-20	
Cobalt	0.5000	114	117	80-120	73-127	2	0-20	
Copper	0.5000	106	109	80-120	73-127	2	0-20	
Lead	0.5000	110	112	80-120	73-127	1	0-20	
Molybdenum	0.5000	106	108	80-120	73-127	2	0-20	
Nickel	0.5000	113	114	80-120	73-127	1	0-20	
Selenium	0.5000	105	105	80-120	73-127	1	0-20	
Silver	0.2500	106	107	80-120	73-127	1	0-20	
Thallium	0.5000	112	114	80-120	73-127	1	0-20	
Vanadium	0.5000	105	106	80-120	73-127	1	0-20	
Zinc	0.5000	109	110	80-120	73-127	1	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 7470A Total
Irvine, CA 92617-3094		Method:	EPA 7470A

Project: Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-5,860	**Aqueous**	**Mercury**	**02/28/12**	**02/28/12**	**120228L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.01000	99	100	85-121	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-02-1688
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B

Project: Crown City Plating Company / NB1016075

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-001-7,138	**Aqueous**	**GC/MS Q**	**02/28/12**	**02/28/12**	**120228L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	94	96	80-120	73-127	2	0-20	
Carbon Tetrachloride	50.00	89	90	66-138	54-150	1	0-20	
Chlorobenzene	50.00	94	94	80-120	73-127	0	0-20	
1,2-Dibromoethane	50.00	96	98	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	95	97	80-120	73-127	2	0-20	
1,2-Dichloroethane	50.00	97	98	80-129	72-137	1	0-20	
1,1-Dichloroethene	50.00	87	86	71-131	61-141	1	0-20	
Ethylbenzene	50.00	97	98	80-123	73-130	1	0-20	
Toluene	50.00	96	96	79-121	72-128	0	0-20	
Trichloroethene	50.00	96	96	80-120	73-127	0	0-20	
Vinyl Chloride	50.00	93	92	70-136	59-147	1	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	92	94	72-126	63-135	1	0-22	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: N/A
Work Order No: 12-02-1688

Project: Crown City Plating Company / NB1016075

Matrix: Aqueous or Solid

Parameter	Method	Quality Control Sample ID	Date Extracted	Date Analyzed	LCS % REC	LCSD % REC	%REC CL	RPD	RPD CL	Qual
Chromium, Hexavalent	EPA 7199	099-05-123-3,080	N/A	02/28/12	100	100	80-120	0	0-20	
Cyanide, Total	SM 4500-CN E	099-05-061-3,253	02/29/12	02/29/12	83	82	80-120	1	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-02-1688

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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NB33768

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 02/28/2012 PAGE 1 OF 1

PROJECT NUMBER: NB1016075

RESULTS TO: Joseph Bande

TURNAROUND TIME: 24 Hour TAT

SAMPLE SHIPMENT METHOD: Propoff @ lab

LABORATORY NAME: Calscience

LABORATORY ADDRESS: 7440 Lincoln Way, Garden Grove, CA 92841

LABORATORY CONTACT: Stephen Nowak

LABORATORY PHONE NUMBER: 714-895-5494

CLIENT INFORMATION:

REPORTING REQUIREMENTS: 12-02-1688

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

	DATE	TIME	SAMPLE NUMBER	VOCs (8260B)	CAM 17 metals	Hex. Chromium (7199)	pH (9045)	Cyanide	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	2/28/2	1545	P7756	X					40mL VOAs	W		HCL	✓		3	
		1545	P7756					X	250mL HDPE	W		NaOH	✓		4	
		1545	P7756		X				125mL HDPE	W		HNO_3	✓		2	
		1545	P7756			X	X		250mL HDPE	W		—	✓		2	
2		1610	P7182	X					40mL VOAs	W		HCL	✓		3	
		1610	P7182					X	1L HDPE	W		NaOH	✓		1	
		1610	P7182		X				125mL HDPE	W		HNO_3	✓		2	
		1610	P7182			X	X		250mL/125mL HDPE	W		—	✓		2	

TOTAL NUMBER OF CONTAINERS: 19

SAMPLING COMMENTS:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Thet Naing	2/28/12	18:33	SIGNATURE: Danny Le	2/28/12	18:33
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CEL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-02-1688

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 02/28/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Initial: bC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: bC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: RS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☑	☐	☐
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☑	☐	☐
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOA**h** (3) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☑1PB**na** (C-2) ☐500PB

(2) RS 2/28/12 ☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☑125 (2) n ☑250 PBna (C-1) (4) ☑125 PB

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** RS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** WPC

Preservative: h: HCL n: HNO_3 na₂: $Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered **Scanned by:** WR

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0365

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/14/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-03-0365

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Calscience Environmental Laboratories, Inc.

Client:	AMEC Environment & Infrastructure 121 Innovation Drive Suite 200	Work Order:	12-03-0365
		Project Name:	Crown City Plating Company / NB1016075A
		Received:	03/06/12 16:32
Attn:	Joseph Bahde		

DETECTIONS SUMMARY

Client Sample ID Analyte	Result	Qualifiers	Reporting Limit	Units	Method	Extraction
IDW-soil						
Arsenic	**4.15**		0.750	mg/kg	EPA 6010B	EPA 3050B
Barium	**52.7**		0.500	mg/kg	EPA 6010B	EPA 3050B
Beryllium	**0.719**		0.250	mg/kg	EPA 6010B	EPA 3050B
Cadmium	**0.581**		0.500	mg/kg	EPA 6010B	EPA 3050B
Chromium	**38.2**		0.250	mg/kg	EPA 6010B	EPA 3050B
Cobalt	**10.7**		0.250	mg/kg	EPA 6010B	EPA 3050B
Copper	**28.0**		0.500	mg/kg	EPA 6010B	EPA 3050B
Lead	**5.25**		0.500	mg/kg	EPA 6010B	EPA 3050B
Nickel	**10.9**		0.250	mg/kg	EPA 6010B	EPA 3050B
Vanadium	**36.3**		0.250	mg/kg	EPA 6010B	EPA 3050B
Zinc	**48.3**		1.00	mg/kg	EPA 6010B	EPA 3050B
Mercury	**0.158**		0.0835	mg/kg	EPA 7471A	EPA 7471A Total

Subcontracted analyses, if any, are not included in this summary.

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*MDL is shown.

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3550B
Irvine, CA 92617-3094		Method:	EPA 8015B (M)
		Units:	mg/kg

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-soil	**12-03-0365-1-A**	**03/06/12 14:00**	**Solid**	**GC 46**	**03/07/12**	**03/07/12 18:26**	**120307B04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND	5.0	1		C21-C22	ND	5.0	1	
C7	ND	5.0	1		C23-C24	ND	5.0	1	
C8	ND	5.0	1		C25-C28	ND	5.0	1	
C9-C10	ND	5.0	1		C29-C32	ND	5.0	1	
C11-C12	ND	5.0	1		C33-C36	ND	5.0	1	
C13-C14	ND	5.0	1		C37-C40	ND	5.0	1	
C15-C16	ND	5.0	1		C41-C44	ND	5.0	1	
C17-C18	ND	5.0	1		C6-C44 Total	ND	5.0	1	
C19-C20	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	106	61-145	

Method Blank	**099-14-085-570**	**N/A**	**Solid**	**GC 46**	**03/07/12**	**03/07/12 16:39**	**120307B04**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C6	ND	5.0	1		C21-C22	ND	5.0	1	
C7	ND	5.0	1		C23-C24	ND	5.0	1	
C8	ND	5.0	1		C25-C28	ND	5.0	1	
C9-C10	ND	5.0	1		C29-C32	ND	5.0	1	
C11-C12	ND	5.0	1		C33-C36	ND	5.0	1	
C13-C14	ND	5.0	1		C37-C40	ND	5.0	1	
C15-C16	ND	5.0	1		C41-C44	ND	5.0	1	
C17-C18	ND	5.0	1		C6-C44 Total	ND	5.0	1	
C19-C20	ND	5.0	1						

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	61-145	

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B
		Units:	ug/kg

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-soil	**12-03-0365-1-A**	**03/06/12 14:00**	**Solid**	**GC/MS XX**	**03/06/12**	**03/08/12 00:47**	**120307L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	97	60-132		Dibromofluoromethane	98	63-141	
1,2-Dichloroethane-d4	101	62-146		Toluene-d8	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 · TEL:(714) 895-5494 · FAX: (714) 894-7501

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B
		Units:	ug/kg

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-5,758**	**N/A**	**Solid**	**GC/MS XX**	**03/07/12**	**03/07/12 23:52**	**120307L03**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	120	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	99	60-132		Dibromofluoromethane	100	63-141	
1,2-Dichloroethane-d4	104	62-146		Toluene-d8	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3050B / EPA 7471A Total
Irvine, CA 92617-3094		Method:	EPA 6010B / EPA 7471A
		Units:	mg/kg
Project: Crown City Plating Company / NB1016075A			Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
IDW-soil	**12-03-0365-1-A**	**03/06/12 14:00**	**Solid**	**ICP 5300**	**03/07/12**	**03/07/12 13:07**	**120307L01**

Comment(s): -Mercury analysis was performed on 03/07/12 11:35 with batch 120307L01.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Mercury	0.158	0.0835	1	
Arsenic	4.15	0.750	1		Molybdenum	ND	0.250	1	
Barium	52.7	0.500	1		Nickel	10.9	0.250	1	
Beryllium	0.719	0.250	1		Selenium	ND	0.750	1	
Cadmium	0.581	0.500	1		Silver	ND	0.250	1	
Chromium	38.2	0.250	1		Thallium	ND	0.750	1	
Cobalt	10.7	0.250	1		Vanadium	36.3	0.250	1	
Copper	28.0	0.500	1		Zinc	48.3	1.00	1	
Lead	5.25	0.500	1						

Method Blank	**099-04-007-8,530**	**N/A**	**Solid**	**Mercury**	**03/07/12**	**03/07/12 11:02**	**120307L01**

Comment(s): -Preparation/analysis for Mercury was performed by EPA 7471A.

Parameter	Result	RL	DF	Qual
Mercury	ND	0.0835	1	

Method Blank	**097-01-002-15,705**	**N/A**	**Solid**	**ICP 5300**	**03/07/12**	**03/07/12 18:50**	**120307L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.750	1		Lead	ND	0.500	1	
Arsenic	ND	0.750	1		Molybdenum	ND	0.250	1	
Barium	ND	0.500	1		Nickel	ND	0.250	1	
Beryllium	ND	0.250	1		Selenium	ND	0.750	1	
Cadmium	ND	0.500	1		Silver	ND	0.250	1	
Chromium	ND	0.250	1		Thallium	ND	0.750	1	
Cobalt	ND	0.250	1		Vanadium	ND	0.250	1	
Copper	ND	0.500	1		Zinc	ND	1.00	1	

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3050B
Irvine, CA 92617-3094		Method:	EPA 6010B

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
IDW-soil	**Solid**	**ICP 5300**	**03/07/12**	**03/07/12**	**120307S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	25.00	18	17	50-115	7	0-20	3
Arsenic	25.00	100	98	75-125	1	0-20	
Barium	25.00	112	107	75-125	1	0-20	
Beryllium	25.00	104	104	75-125	0	0-20	
Cadmium	25.00	102	103	75-125	1	0-20	
Chromium	25.00	103	99	75-125	2	0-20	
Cobalt	25.00	105	109	75-125	3	0-20	
Copper	25.00	120	121	75-125	1	0-20	
Lead	25.00	99	99	75-125	0	0-20	
Molybdenum	25.00	96	98	75-125	2	0-20	
Nickel	25.00	100	100	75-125	0	0-20	
Selenium	25.00	91	93	75-125	3	0-20	
Silver	12.50	104	104	75-125	1	0-20	
Thallium	25.00	77	77	75-125	1	0-20	
Vanadium	25.00	102	103	75-125	0	0-20	
Zinc	25.00	112	106	75-125	2	0-20	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3550B
Irvine, CA 92617-3094		Method:	EPA 8015B (M)

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0267-2	**Solid**	**GC 46**	**03/07/12**	**03/07/12**	**120307S04**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	94	94	64-130	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 7471A Total
Irvine, CA 92617-3094		Method:	EPA 7471A

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0330-1	**Solid**	**Mercury**	**03/07/12**	**03/07/12**	**120307S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	105	104	71-137	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
IDW-soil	**Solid**	**GC/MS XX**	**03/06/12**	**03/08/12**	**120307S03**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	50.00	104	97	61-127	8	0-20	
Carbon Tetrachloride	50.00	97	91	51-135	6	0-29	
Chlorobenzene	50.00	104	98	57-123	6	0-20	
1,2-Dibromoethane	50.00	98	92	64-124	7	0-20	
1,2-Dichlorobenzene	50.00	98	93	35-131	5	0-25	
1,2-Dichloroethane	50.00	102	94	80-120	8	0-20	
1,1-Dichloroethene	50.00	106	98	47-143	8	0-25	
Ethylbenzene	50.00	101	94	57-129	7	0-22	
Toluene	50.00	102	96	63-123	7	0-20	
Trichloroethene	50.00	105	99	44-158	6	0-20	
Vinyl Chloride	50.00	109	100	49-139	8	0-47	
Methyl-t-Butyl Ether (MTBE)	50.00	97	90	57-123	8	0-21	

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3050B
Irvine, CA 92617-3094		Method:	EPA 6010B

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-15,705	**Solid**	**ICP 5300**	**03/07/12**	**03/07/12**	**120307L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Antimony	25.00	102	102	80-120	73-127	0	0-20	
Arsenic	25.00	101	101	80-120	73-127	0	0-20	
Barium	25.00	106	107	80-120	73-127	1	0-20	
Beryllium	25.00	99	100	80-120	73-127	1	0-20	
Cadmium	25.00	102	103	80-120	73-127	1	0-20	
Chromium	25.00	98	98	80-120	73-127	1	0-20	
Cobalt	25.00	111	112	80-120	73-127	1	0-20	
Copper	25.00	105	106	80-120	73-127	0	0-20	
Lead	25.00	102	102	80-120	73-127	0	0-20	
Molybdenum	25.00	103	102	80-120	73-127	0	0-20	
Nickel	25.00	105	106	80-120	73-127	1	0-20	
Selenium	25.00	100	100	80-120	73-127	1	0-20	
Silver	12.50	96	96	80-120	73-127	0	0-20	
Thallium	25.00	103	103	80-120	73-127	1	0-20	
Vanadium	25.00	99	99	80-120	73-127	1	0-20	
Zinc	25.00	107	109	80-120	73-127	2	0-20	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 3550B
Irvine, CA 92617-3094		Method:	EPA 8015B (M)

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-14-085-570	**Solid**	**GC 46**	**03/07/12**	**03/07/12**	**120307B04**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	400.0	99	103	75-123	4	0-12	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 7471A Total
Irvine, CA 92617-3094		Method:	EPA 7471A

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-8,530	**Solid**	**Mercury**	**03/07/12**	**03/07/12**	**120307L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	0.8350	100	100	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0365
Suite 200		Preparation:	EPA 5030C
Irvine, CA 92617-3094		Method:	EPA 8260B

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-796-5,758	**Solid**	**GC/MS XX**	**03/07/12**	**03/07/12**	**120307L03**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	50.00	96	96	78-120	71-127	0	0-20	
Carbon Tetrachloride	50.00	90	92	49-139	34-154	3	0-20	
Chlorobenzene	50.00	95	98	79-120	72-127	3	0-20	
1,2-Dibromoethane	50.00	90	91	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	92	93	75-120	68-128	2	0-20	
1,2-Dichloroethane	50.00	92	93	80-120	73-127	1	0-20	
1,1-Dichloroethene	50.00	98	99	74-122	66-130	1	0-20	
Ethylbenzene	50.00	92	95	76-120	69-127	3	0-20	
Toluene	50.00	95	96	77-120	70-127	1	0-20	
Trichloroethene	50.00	96	97	80-120	73-127	1	0-20	
Vinyl Chloride	50.00	96	101	68-122	59-131	6	0-20	
Methyl-t-Butyl Ether (MTBE)	50.00	91	92	77-120	70-127	1	0-20	

Total number of LCS compounds : 12
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

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RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0365

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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CHAIN-OF-CUSTODY RECORD

NB 33782

PROJECT NAME: Crown City Plating Company			DATE: 03/06/2012 PAGE 1 OF 1
PROJECT NUMBER: NB10160075A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bancle	LABORATORY ADDRESS:		12-03-0365
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	VOCs (8260B)	TPHcc (full range)	8015	Metals + 6010B/7471	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/06/12	1400	IDW-Soil	X	X		X	4 oz jars	S		—	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/6/12	16:32	SIGNATURE: [signature]	3/6/12	16:32
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CSL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 2

SAMPLING COMMENTS:

* Title 22 metals

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0365

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/06/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: b.L

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: bL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: YC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☐	☐	☑
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** YC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** RM

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** RM

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC002687738
2. Page 1 of 1
3. Emergency Response Phone: 909-476-2306
4. Manifest Tracking Number: 006158765 JJK

5. Generator's Name and Mailing Address
Department of Toxic Substance Control
9211 Oakdale Ave
Chatsworth, CA 91311
Generator's Phone: 818-717-6556

Generator's Site Address (if different than mailing address)
4350 Temple City Blvd
El Monte, CA 91731

6. Transporter 1 Company Name: K-Vac Environmental Services
U.S. EPA ID Number: CAR000163097

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Siemens Water Technologies Corp
5375 S Boyle Ave
Los Angeles, CA 90058
Facility's Phone: 323-277-1500
U.S. EPA ID Number: CAD097030993

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste, liquid, n.o.s. (Chromium contaminated water), 9, PGIII	001	TT	330	P	D007	132	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b.1) Profile# P194511 ERG: 171
Workorder # 2012 0758 ER Contact: K-Vac Environmental 909-476-2306
VAC-3055A WEAR APPROPRIATE PPE
RS 81298
D11 9978

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Steven Friet c/o DTSC
Signature:
Month 03 Day 19 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robert Sanchez
Signature:
Month 03 Day 19 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifested 330 gal received 3047 gal
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Aaron Astel
Signature:
Month 03 Day 19 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 909-476-2308	4. Waste Tracking Number 2012 0759

5. Generator's Name and Mailing Address
Department of Toxic Substance Control
9211 Oakdale Ave
Chatsworth, CA 91311
Generator's Phone: 818-717-6556

Generator's Site Address (if different than mailing address)
4350 Temple City Blvd
El Monte, CA 91731

6. Transporter 1 Company Name
KVAC Environmental Services, Inc.
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
K-Pure Waterworks, Inc
8910 Rochester Ave.
Rancho Cucamonga CA.
Facility's Phone: 909-476-2308
U.S. EPA ID Number

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non-Hazardous waste, liquid	1	TT	5000	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Profile # 56790 Work Order # 2012 0759
VAC-3055A

Wear appropriate protective clothing
24-hour emergency contact phone number: K-Vac Environmental (909) 476-2308

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Steven Friet c/o DTSC
Signature: [signature]
Month 3 Day 19 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Andres A. Cortez
Signature: Andres A. Cortez
Month 3 Day 19 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Miguel Valdovinor
Signature: [signature]
Month 03 Day 19 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-C6NHW
913-897-6966

Soil Safe of California, Inc. **ADE** 100503

12328 Hibiscus Ave. Adelanto, CA 92301

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professional Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Manifest Number: A3-8916 Load #: 1 3/30/2012

Generator Site Information:

CROWN CITY PLATING COMPANY

4350 TEMPLE CITY ROAD

EL MONTE, CA 91731

Weighmaster Weighed at:

SOIL SAFE OF CALIFORNIA, INC..

12328 HIBISCUS AVE

ADELANTO, CA 92301

			Lbs	Tons	
J Provansal	**Time In:** 12:58:39 PM	**Gross Weight:**	29240	14.62	Manual Wt
J Provansal	**Time out:** 12:58:43 PM	**Tare Weight:**	28120	14.06	Manual Wt
		Net Weight:	1120	0.56	

Truck Number: 514

Trailer Number: 210

Commodity: Non Haz - Solids

Driver on Gross and Tare Transporter: AIS - BEN

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
	Transporter		A07	38916	0011

Generator and/or Consultant

Generator's Name and Billing Address: Department of Toxic Substance Control 9211 Oakdale Avenue Chatsworth, CA. 91731	Generator's Phone #: Person to Contact: FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* Crown City Plating Company 4350 Temple City Blvd. El Monte, CA. 91731	Site Phone #: Person to Contact: FAX#:	
Designated Facility (Transport to): *(name & address)* Soil Safe 12328 Hibiscus Rd. Adelanto, CA 92301-1700	Facility Phone #: (800) 862-8001 Person to Contact: Dellena Jeffrey FAX#: (760) 246-8004	
Transporter Name and Mailing Address: American Integrated Services, Inc. P.O. Box 92316 Long Beach, CA 90809-2316	Transporter's Phone #: (310) 522-1166 Person to Contact: Melynda Borrego FAX#: (310) 522-0474	CAR000148338 Customer Account Number 7704906

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑	2		29240	28120	1120
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑					.56

List any exception to items listed above: AIS Project # 32009-4-20 Scale Ticket # 166503

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ❑ Steve Friet C/o DTSC | Signature and date: | Month 3 Day 21 Year 12

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Ben Bulgo | Signature and date: | Month 3 Day 27 Year 12

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: D Jeffrey/J. Provensal | Signature and date: 3.30.12

Please print or type.

TRANSPORTER COPY

APPENDIX C

Field Documents

DAILY FIELD RECORD

amec

Project and Task Number: NB1616C 75A	Date: 02/28/2012
Project Name: Crown City Plating Company	Field Activity: Containerize rain water
Location: 4350 Temple City Blvd, El Monte	Weather: Clear and cold.

PERSONNEL: Name	Company	Time In	Time Out
T. Naing	AMEC	825	1650
	KVAC	800	1650

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION
P7756	Rainwater from AC1 and AC5	Court yard
P7182	Rainwater from AC13	Court yard.

TIME	DESCRIPTION OF WORK PERFORMED
825	Arrive on site. KVAC vacuum truck is on site. ~~Brief~~ Brief KVAC on
	site health and safety concerns. Emphasis on pit falls.
	KVAC prepares to suck out water
900	Start sucking water from metal plating area (AOC 1).
1000	Vacuum truck tank is full. Wait for Baker tanks.
1130	Baker tanks arrive on site.
	Transfer water from vacuum tank to Baker tank.
	Two tanks were dropped off (P7756 & P7182).
	Water from Area 1 and 5 are contained in P7756.
	Water from AC13 is contained in P7182.
1615	finish sucking water from AC13. Transfer water into Baker tank.
	Collect profile samples from Baker tanks. Collected separate
	samples. Samples are tied by the tank numbers.
1650	Leave the site.
1835	Relinquish samples at Calscience.
1915	Arrive back at office.
	Accumulated ~ 9000 gallons (5000 in P7756 & 4000 in P7182)

DAILY FIELD RECORD

amec

Project and Task Number: NB1060-7SA	Date: 03/01/2012
Project Name: Crown City Plating Company	Field Activity: Deep soil sampling
Location: 4350 Temple City, El Monte	Weather: clear and warm

PERSONNEL: Name	Company	Time In	Time Out
T. Nieing	AMEC	745	1555
Darrel, James, DJ	Gregg Drilling & Testing (GDT)	730	1550
	Rice Concrete Coring (Rice)	730	1305
J. Morse, J. Bande	AMEC	930/820	/1000
S. Fried	TTGC	830	—

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
745	Arrive onsite. GDT and Rice are on site.
	Brief on site health and safety. Emphasis on pitfalls.
	Show proposed sampling locations and discuss logistics.
830	Start coring in AC01.
930	Start hand augering @ AC01-B1.
950	Hand augered B1 to 4'. Set up for drilling.
	Start hand augering B2
	The Ramset is bolted into the concrete floor.
1020	Start drilling B1 using the Ram set.
1050	Drilled to 15.5'. Refusal @ 15.5'.
	Set up @ B2
1125	While anchoring the base plate of Ramset, the drill bit broke. Drillers
	do not have extra. Drillers take break. Go to Homedepot to get
	new bits.
	Finish coring (concrete) 10 locations in AC 1 and AC 5.
	Request concrete corer to core one location in AC 1, plating line 1.
1200	Finish coring in AC 1, plating line 1. Concrete is ~ 7" thick.

DAILY FIELD RECORD (continued)

amec

Project and Task Number: NB10160075A | Date: 03-01-2012

TIME	DESCRIPTION OF WORK PERFORMED
	Packup concrete coring equipment.
1220	Drillers return.
1225	Resume work.
1240	Start drilling
1305	Refusal @ 15.5'. Set up @ B3.
	Rice leaves the site.
1325	Start drilling @ B3.
1345	Refusal @ 16'.
1420	Start drilling @ B4.
1450	Refusal @ 16'. Cleanup.
1500	Collect equipment blank sample from sampler shoe
1505	leave the site
1715	Relinquish sample @ Calscience.

DAILY FIELD RECORD

amec

Project and Task Number: NB10607SA	Date: 03-02-2012
Project Name: Crown City Plating Company	Field Activity: Deep soil sampling (AOC5)
Location:	Weather: Clear and warm

PERSONNEL: Name	Company	Time In	Time Out
T. Waing, J. Morse	AMEC	720/820	1530
Darrel, James, DJ	Greggs Drilling & Testing (GDT)	720	1530

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
720	Arrive on site. Drillers arrive on site.
	On entrance, power steering line on the support truck broke.
	Drillers look over the damage.
740	Start gathering equipment into AOC5.
750	Start hand augering @ B1 in AOC5.
	Set up for drilling.
830	Start drilling.
850	Refusal @ 18.5'.
905	Start hand augering @ B2.
	Setup RamSet @ B2
950	Start drilling B2
1010	Refusal @ 15'.
1040	Start hand augering B3.
	Set up RamSet @ B3.
1100	Start drilling @ B3
1120	Drilled to 20'.
1135	Drillers break for lunch.

DAILY FIELD RECORD (continued)

amec

Project and Task Number: NB10160754 | Date: 03-02-2012

TIME	DESCRIPTION OF WORK PERFORMED
1210	Resume work.
	Hand augered B4 to 4'. Set up Ram set
1245 ~~1250~~	Start drilling B4.
1300	Drill to 20'. Destroy boring.
1315	Hand augered B5 to 4'. Set up Ram set.
1325	Start drilling.
1330	Drill to 20'. Destroy the boring.
	Pack up equipment. Clean up site.
1530	Leave the site
1640	Relinquish sample @ Cdscience.

DAILY FIELD RECORD

amec

Project and Task Number: NB10667SA	Date: 03-05-2012
Project Name: Crown City Plating	Field Activity: Deep Soil sampling (AC05
Location: 4360 Temple City, El Monte	Weather: clear and warm

PERSONNEL: Name	Company	Time In	Time Out
T. Deering, J. Morse	AMEC	720	1615
Daniel, James, DJ	Gregg	730	1615
	Rice	1020	1400

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
720	Arrive on site.
730	Drillers arrive on site. Refresh tailgate health and safety.
810	Start hand augering @ AC05-B6.
820	Set up Ram Set.
840	Start drilling @ B6.
855	Drilled to 20'.
	S. Friet is on site.
	Discuss progress and remaining scope.
930	S. Friet leaves the site.
	Start hand augering @ ~~AC05~~ TN AC01-B5 (AC01 plating line 1).
	Four total borings are added to original scope of work.
	~~Four~~ Two locations in AC01 plating line 1 and Two locations in
	AC13 southern plating line.
1000	Start drilling
1020	Refusal @ 15.5'.
	Rice is on site. Core locations in plating line 1.
1100	Propane for forklift runs out. Drillers take early lunch.

DAILY FIELD RECORD (continued)

amec

Project and Task Number: NB1016075A | Date: 03/05/2012

TIME	DESCRIPTION OF WORK PERFORMED
1200	Drillers return.
	Set up @ B6 AC01 (plating line 1)
1230	Start hand augering @ AC01-B6.
1250	Start drilling.
1315	Refusal @ 15'. Move to AC13
1400	Rice leaves the site.
	Set up @ AC13.
	Start hand augering AC13-B5
	Hand augered to 10'.
1410	Start hand augering @ AC13-B4.
	Drillers set up @ B3. Concrete is not cored through. Set up @ B2.
1445	Start drilling @ B2. Finish hand augering @ B4.
1515	Drilled to 20'.
	Destroy all borings and patch up with concrete.
1615	Leave the site.
1732	Relinquish sample at Calscience.
1810	Ship off samples to Moore Twining at fed Ex.
1845	End.

DAILY FIELD RECORD

amec

Project and Task Number: N8016075A	Date: 03-06-2011
Project Name: Crown City Plating Company	Field Activity: Deep Soil sampling (AC 13)
Location: 4350 Temple City, El Monte	Weather: clear and warm

PERSONNEL: Name	Company	Time In	Time Out
T. Nding	AMEC	725	1510
Darel ~~James~~, DJ	Gregg Drilling & Testing	725	1510

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
725	Arrive on site. Drillers are on site.
	Enter AC 13. Set up @ B3. Core the concrete.
840	Hand auger at B3 and B1 to 4'.
	Set up Ponset @ B3.
900	Start drilling @ B3.
1000	Refusal @ 12'. Set up @ B1.
1015	Start drilling @ B1. The concrete is not holding the anchors
	Set up in AC13 southern plating line.
1115	Drillers take lunch break
1200	Resume work.
	Start drilling B6.
1230	Refusal @ 13.5'. Move to B7.
1290	Start drilling.
1315	Refusal @ 11.5'. Site clean up.
	Hand auger B1.
	Encountered refusal @ 13'.

DAILY FIELD RECORD (continued)

amec

Project and Task Number: N8101667SA | Date: 03-06-2012

TIME	DESCRIPTION OF WORK PERFORMED
1400	Collect equipment blank samples.
1510	leave the site
1635	Relinquish sample at Calscience.
1720	Ship off samples at FedEx.
1800	End.

DAILY FIELD RECORD

amec

Project and Task Number: N8101667SA	Date: 03-08-2012
Project Name: Crown City Plating	Field Activity: Shallow soil sampling
Location: 4350 Temple City, El Monte	Weather: Clear and hot

PERSONNEL: Name	Company	Time In	Time Out
J. Naing	AMEC	735	1600
Erik	Rice	825	1220

PERSONAL SAFETY CHECKLIST

	Steel-toed Boots		Hard Hat		Tyvek Coveralls
	Rubber Gloves		Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
735	Arrive onsite. Go to back parking lot. Take down fence.
	Mark boring locations.
825	Rice is on site. Start coring sampling locations.
1210	Rice finish coring, leaves the site.
	Go out to Homedepot to buy concrete for surface repair.
1430	finish soil sampling. Repair sampling locations with concrete.
	Put the fence back up.
	Collect background Arsenic samples.
1600	leave the site
1715	Relinquish samples at Calscience.
1800	Drop off samples at fedex for shipment.

DAILY FIELD RECORD

AMEC

Project and Task Number:	Date: 3/19/12
Project Name: Crown City Plating	Field Activity: Tank Removal
Location: El Monte, CA	Weather: Sunny Cold

PERSONNEL: Name	Company	Time In	Time Out
J. Morse	AMEC	0750	1045
A. Cortez	K Vac Environ.	0800	0950
M. Montoya	↓	0800	0950
R. Gomez	↓	0800	0850

PERSONAL SAFETY CHECKLIST

X	Steel-toed Boots		Hard Hat		Tyvek Coveralls
X	Rubber Gloves	X	Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
0800	Health & Safety by AMEC
0805	K Vac vacuuming Haz tank
0820	Haz tank vacuuming complete. K Vac power washing inside of tank from tank top opening.
~~0830~~ 0840	Haz tank cleaning complete. AMEC inspected inside of tank to make sure all rinsate water was removed.
0850	Tanker w/ haz tank water offsite.
0855	K Vac begin vacuum of nonhaz Baker tank
0915	Completed vacuuming of water from tank. K Vac powerwashing inside of tank.
0930	Power washing complete. AMEC inspected inside and all liquid was removed. K Vac ~~cleaning~~ demobing equipment.
0950	K Vac done with demobe, offsite
1020	Called Greg Myers w/ K Vac. He informed me that the tank pick-up isn't untill Tuesday (3/20) @ 10 am. Called manager to inform him of the situation.
1045	AMEC offsite.

DAILY FIELD RECORD

amec

Project and Task Number: NB1016075A	Date: 06-19-2012
Project Name: Crown City Plating	Field Activity: Data Gap Soil Sampling
Location: 4350 Temple City Blvd, El Monte, CA	Weather:

PERSONNEL: Name	Company	Time In	Time Out
T. Nning	AMEC	730	
Erik, John	InterPhase	730	
Rudy	ACG concrete coring	730	

PERSONAL SAFETY CHECKLIST

X	Steel-toed Boots	X	Hard Hat		Tyvek Coveralls
	Rubber Gloves	X	Safety Goggles		1/2-Face Respirator

DRUM I.D.	DESCRIPTION OF CONTENTS AND QUANTITY	LOCATION

TIME	DESCRIPTION OF WORK PERFORMED
730	Arrive on site. InterPhase and concrete coring are on site.
	Tailgate. health and safety meeting.
	Prepare for coring
840	Start drilling @ AC13-B9
925	Drill depth @ 40'. Destroy the boring. Move to B8
930	Start drilling @ AC13-B8
1000	Drill depth @ 35'. Dest the boring.
	S. Fried is on site.
	Pack up and move to southeast parking lot
1020	Start drilling near SW8.
1225	Finish drilling in southeast parking lot. Borings are backfilled with
	granular bentonite and patch up with concrete.

DESIGN MEMORANDUM

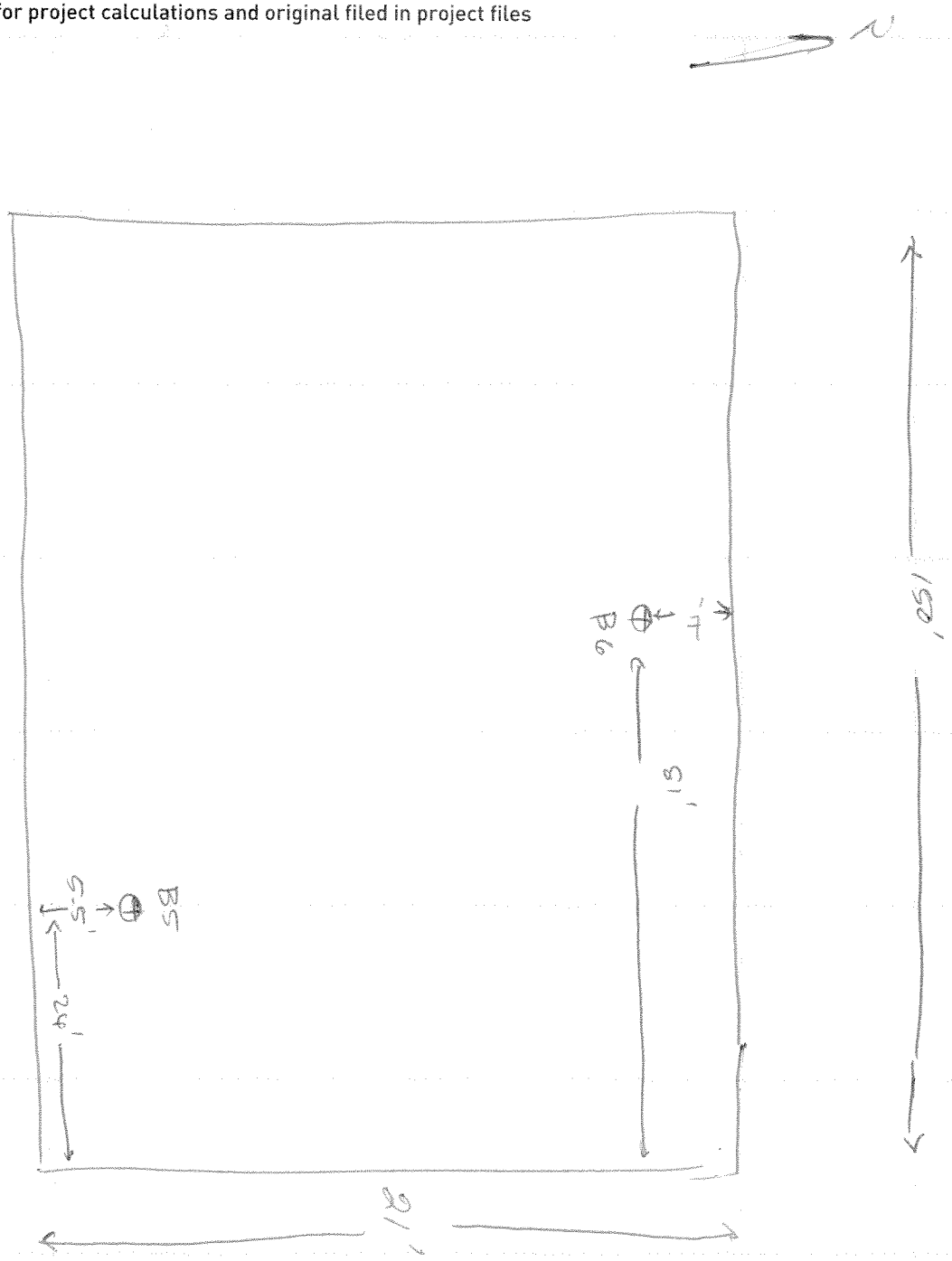
Client: ACO 9 Sheet _____ Of _____

Project: Plating Line 1 Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM

Client: ACOI

Sheet _____ Of _____

Project: Metal Plating Dept

Date: _____

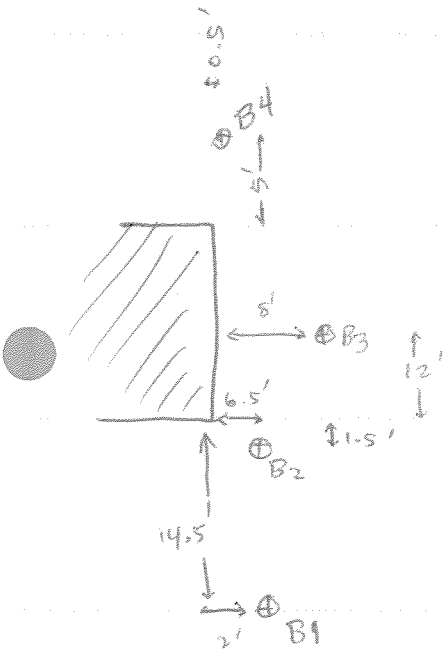
Data For: _____

Work Order: _____

Prepared By: _____ Checked By: _____

File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM

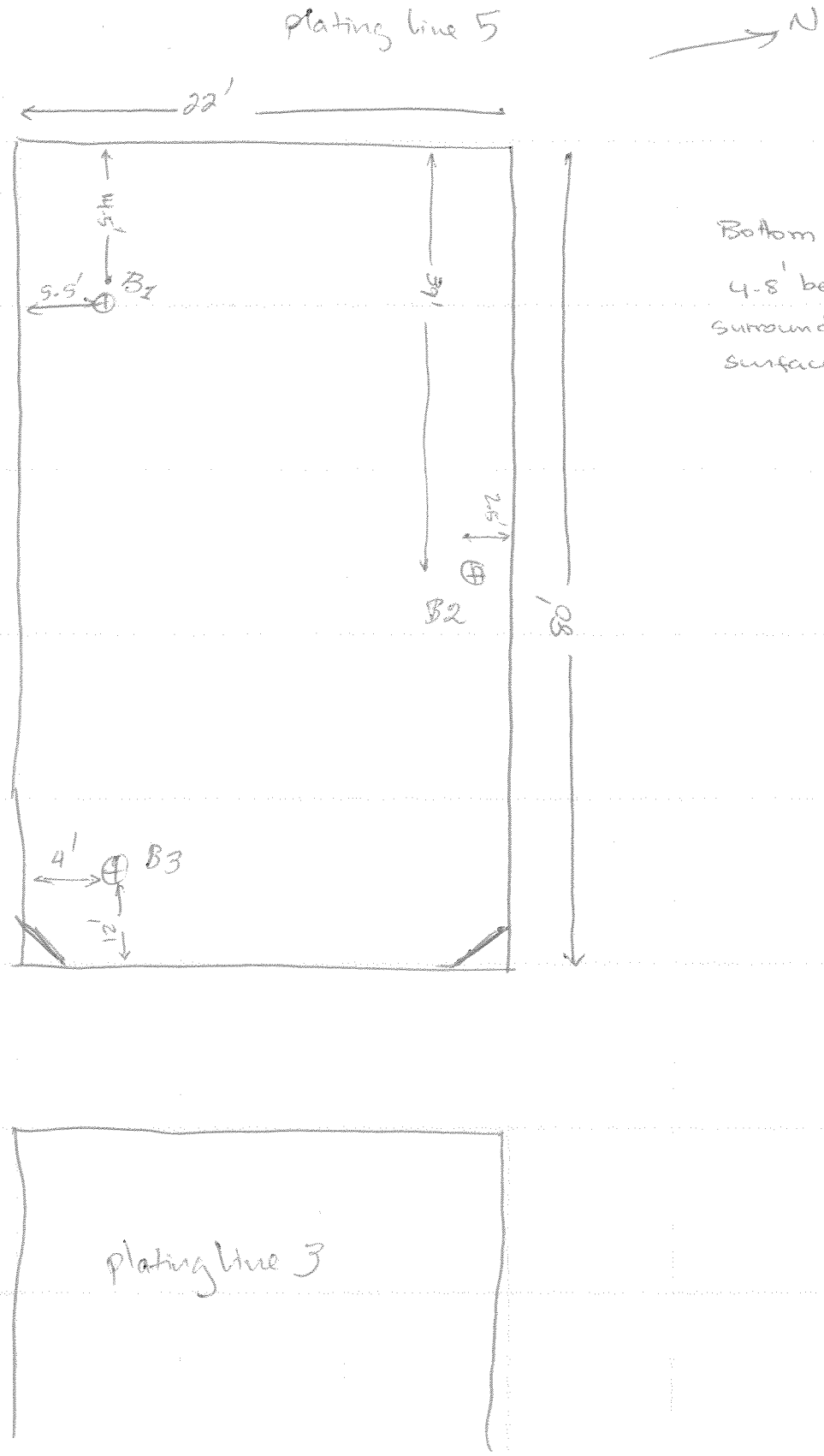
Client: AC 5 Sheet _____ Of _____

Project: _____ Date: 3/2/12

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



Bottom of pit is 4.8' below surrounding concrete surface.

DESIGN MEMORANDUM

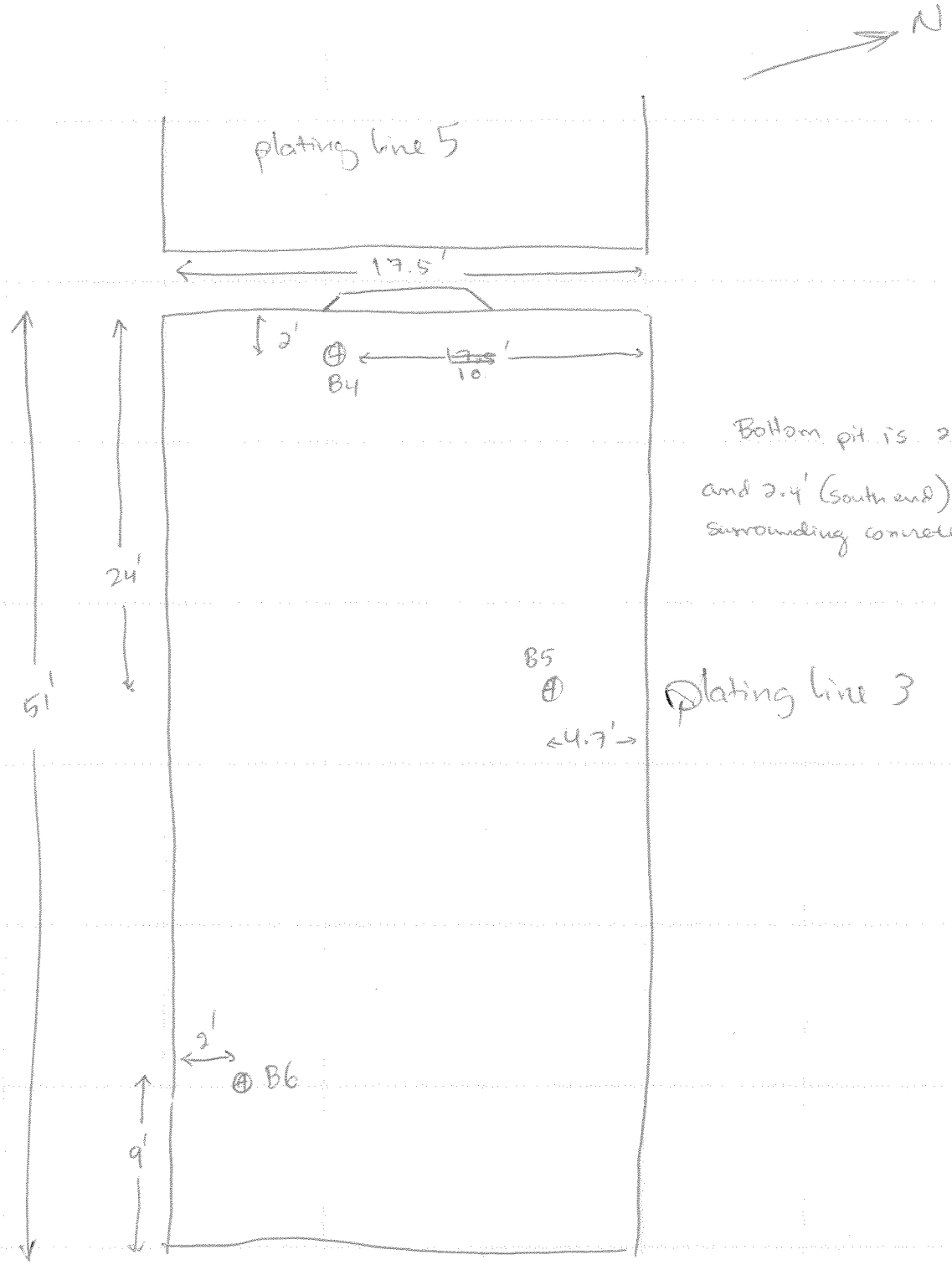
Client: AC 5 Sheet _____ Of _____

Project: _____ Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



Bottom pit is 2.6' (north end) and 2.4' (south end) below surrounding concrete surface.

DESIGN MEMORANDUM

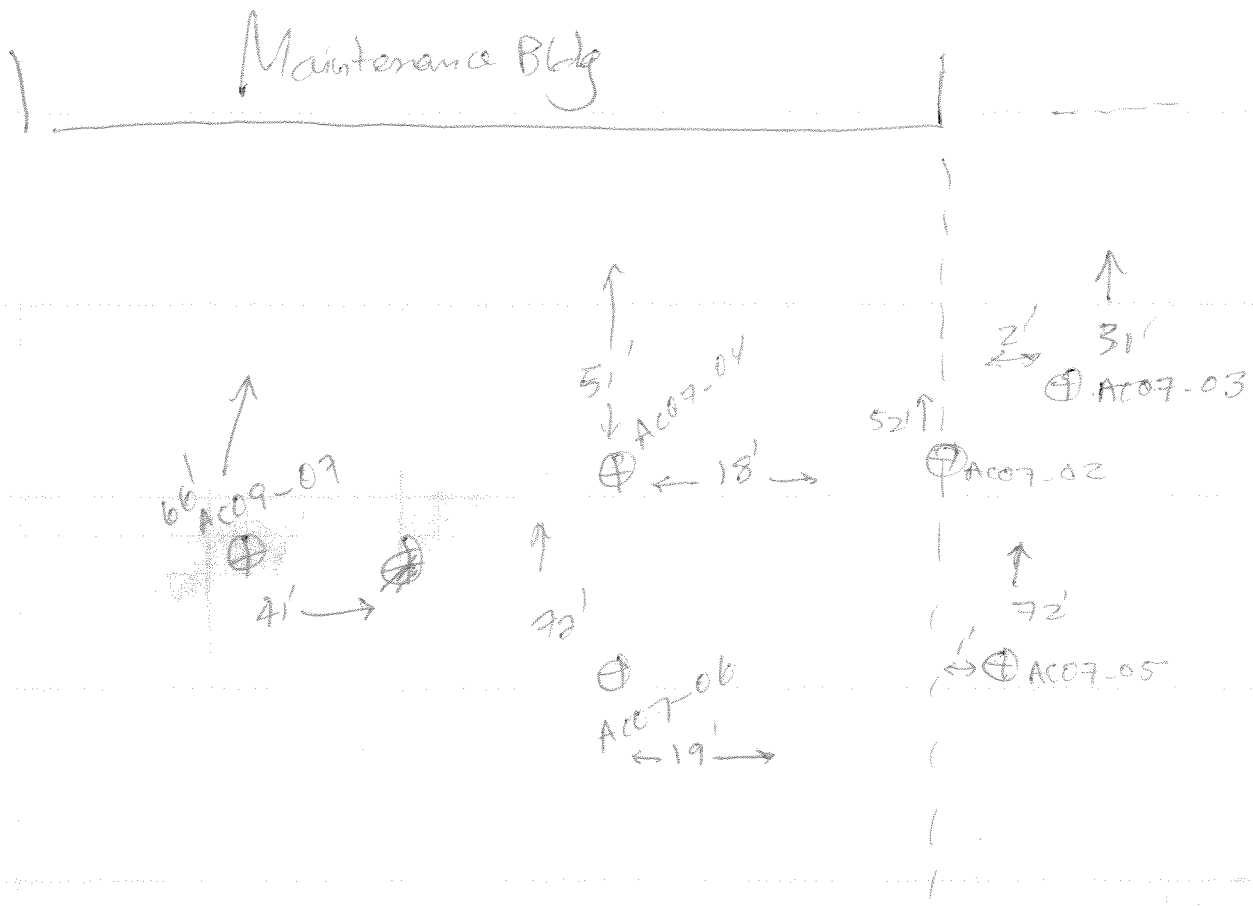
Client: AC07 borings Sheet _____ Of _____

Project: _____ Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



Measurements from "S" and "E" wall of Maintenance Bldg

DESIGN MEMORANDUM

Client: AC09 Sheet _____ Of _____

Project: _____ Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files

DESIGN MEMORANDUM

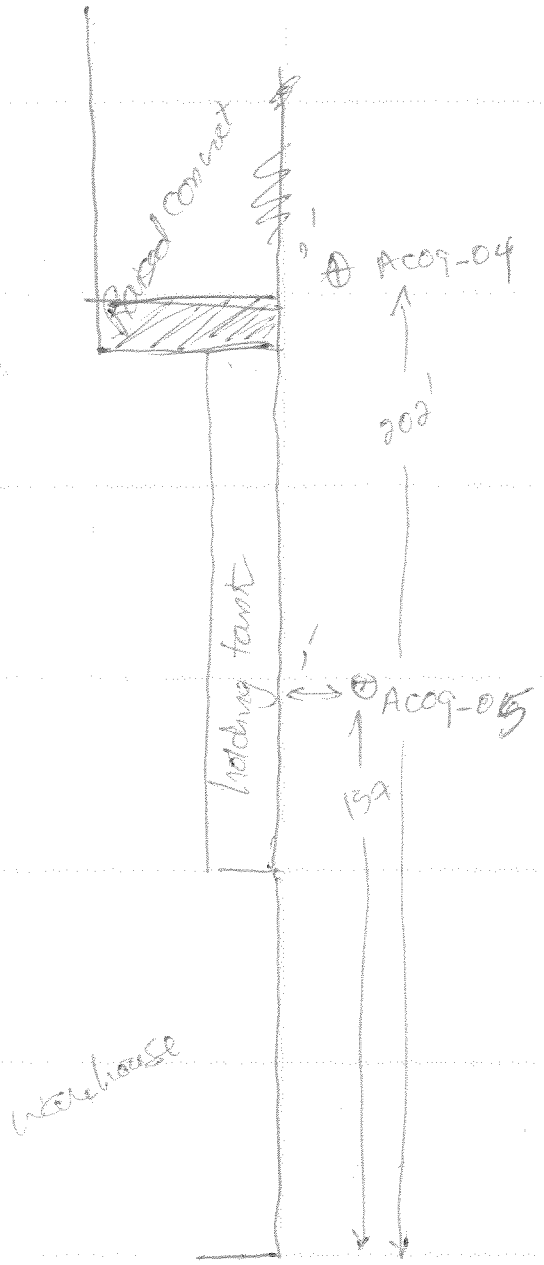
Client: AC09 Sheet _____ Of _____

Project: _____ Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM

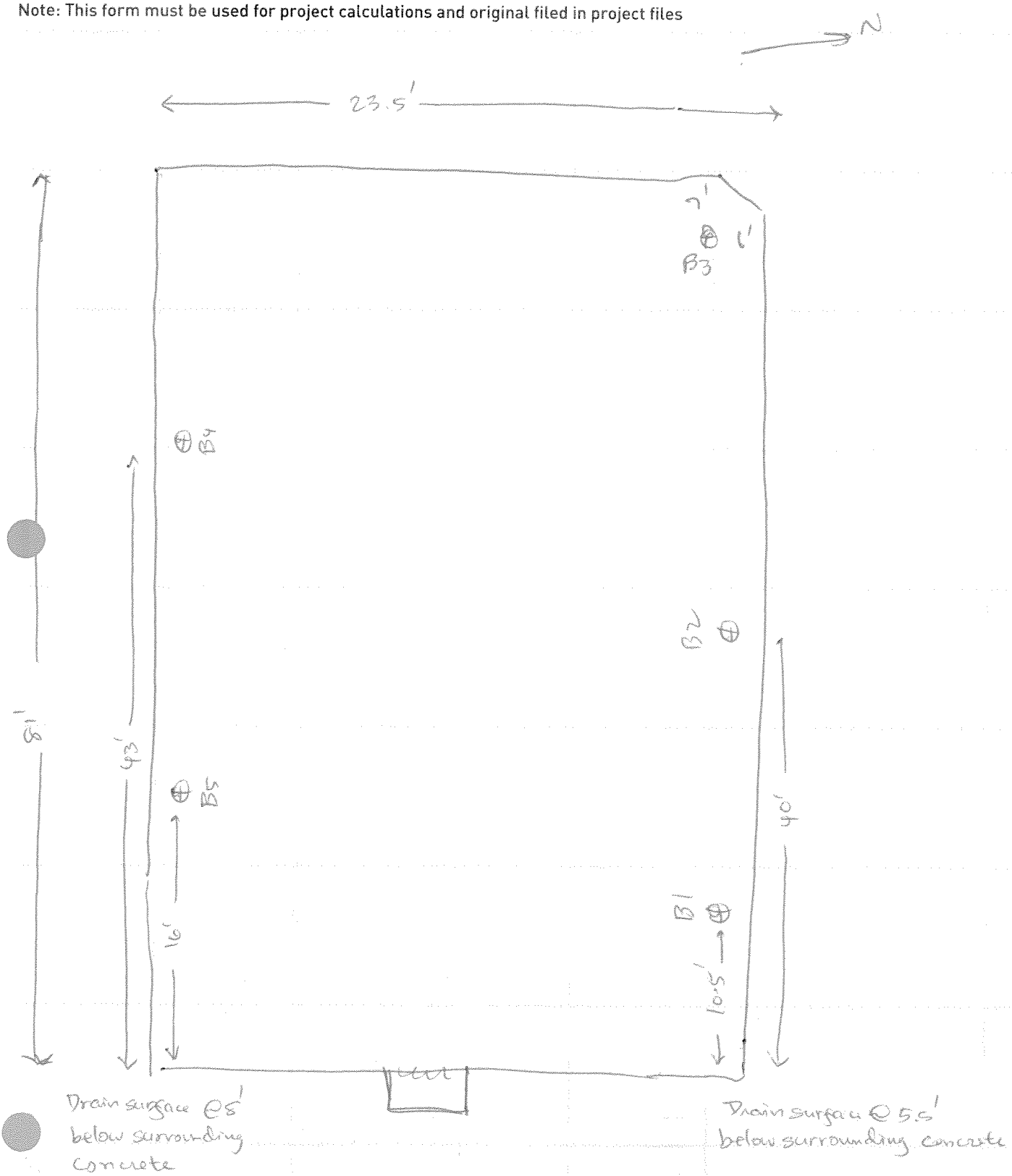
Client: AC13 Sheet _____ Of _____

Project: Northern Plastic Plating Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM

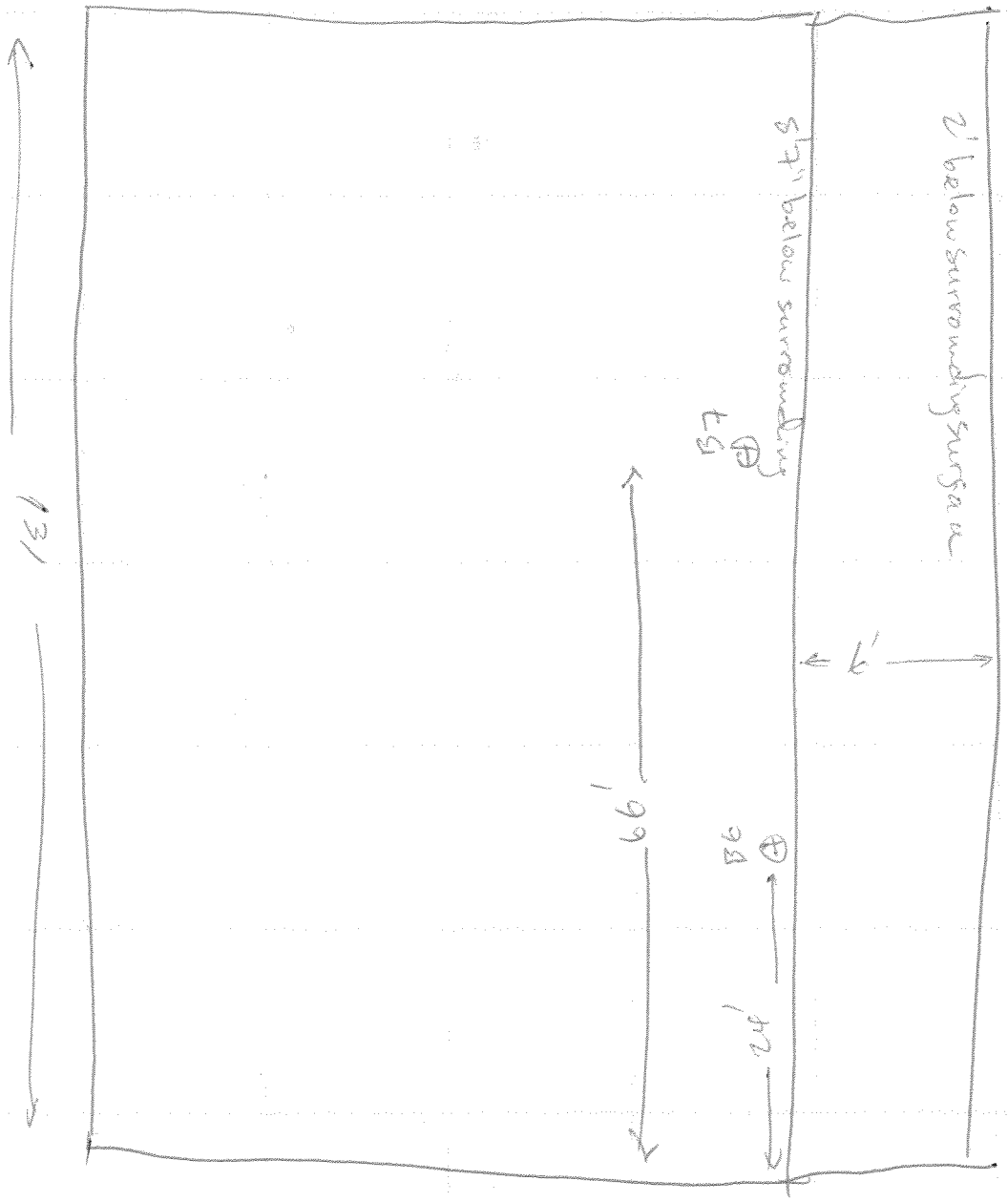
Client: AC 13 Southern line Sheet _____ Of _____

Project: _____ Date: _____

Data For: _____ Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM

Client: SW Parking lot

Sheet _____ Of _____

Project: _____

Date: _____

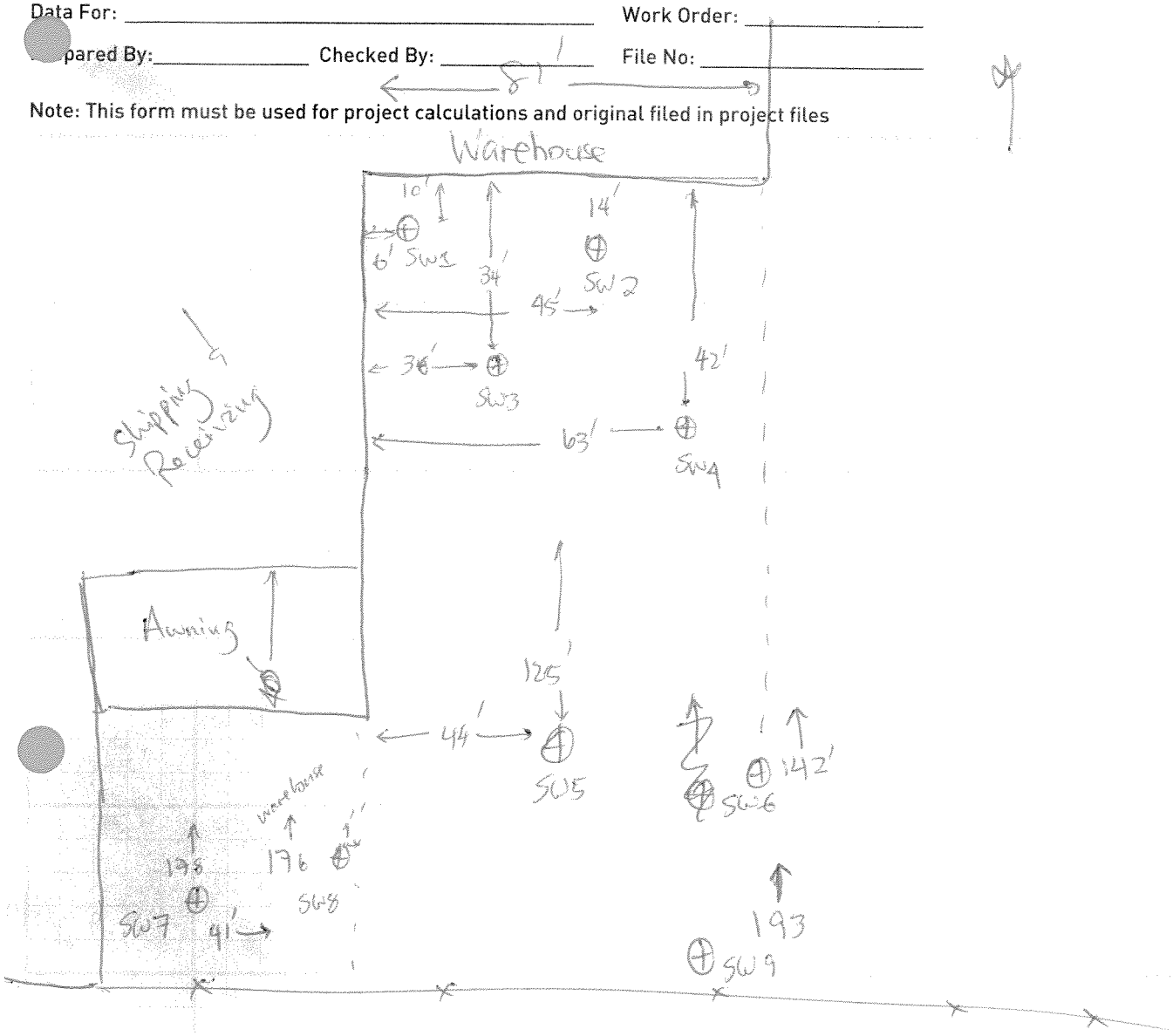
Data For: _____

Work Order: _____

Prepared By: _____ Checked By: _____

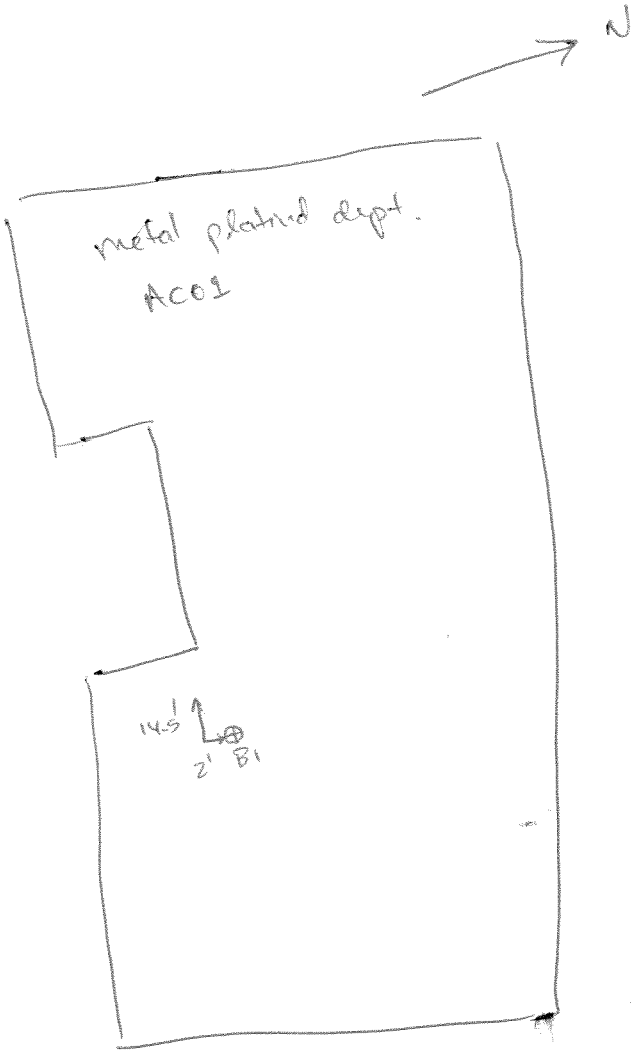
File No: _____

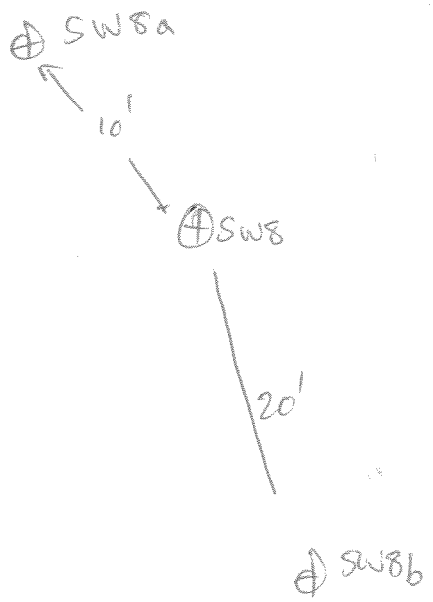
Note: This form must be used for project calculations and original filed in project files

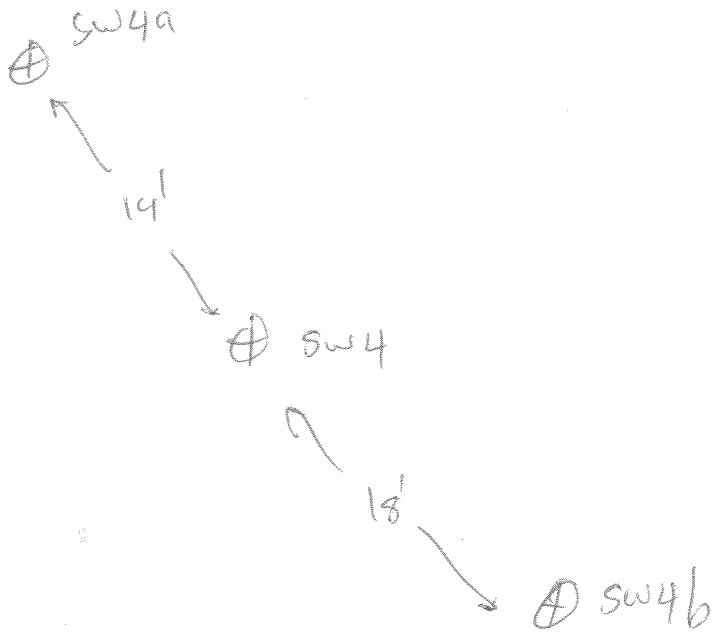


all measurements: from warehouse S wall

from Shipping E wall


N
metal plating dept.
AC01
14.5'
2'
B1


SW8a
10'
SW8
20'
SW8b


SW4a
14'
SW4
18'
SW4b

DESIGN MEMORANDUM (METRIC)

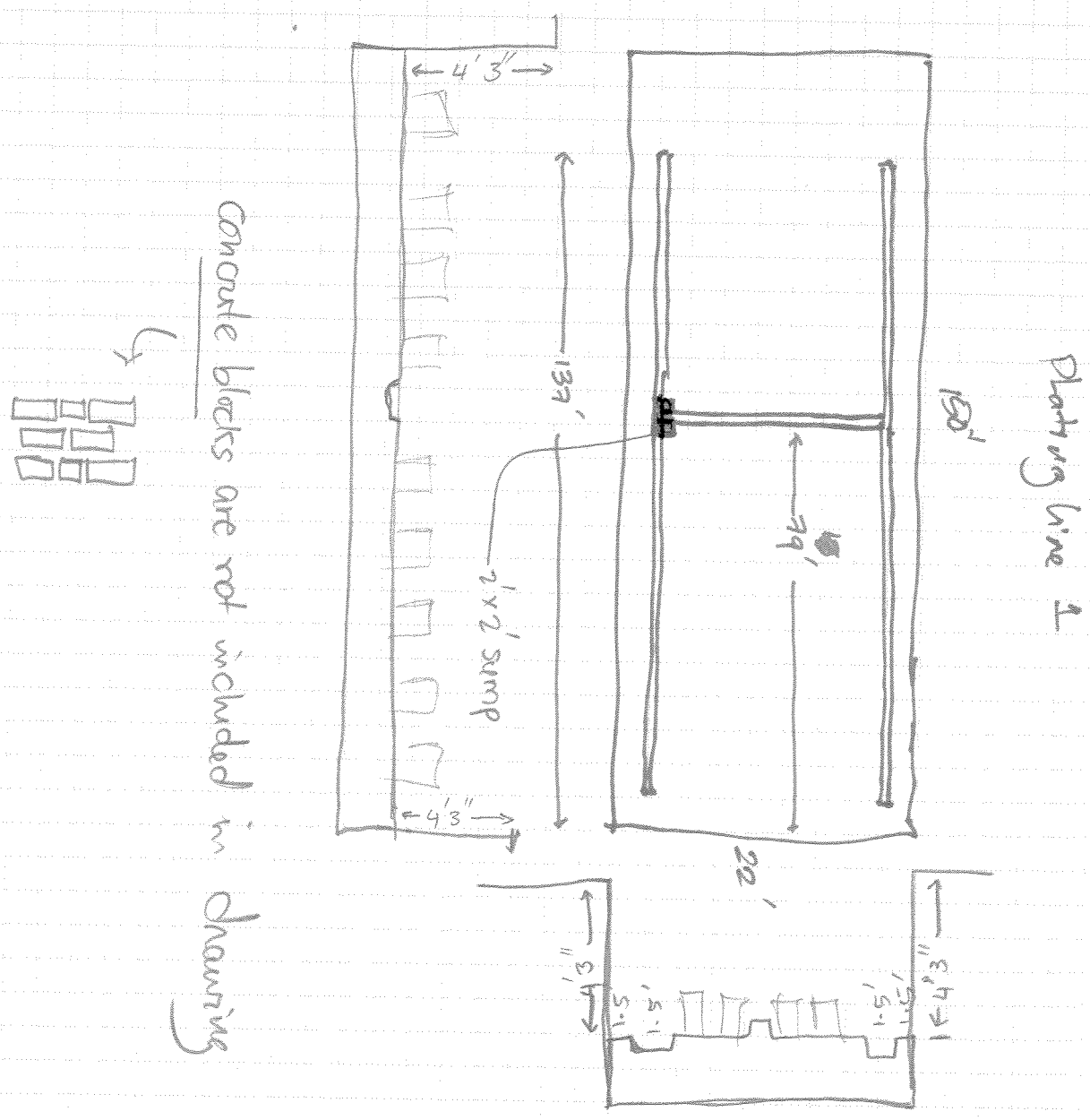
Client: _____ Sheet _____ Of _____

Project: CEPC Date: 9-4-12

Data For: AOC 1 Work Order: _____

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



Concrete blocks are not included in drawing

edge to drainage: 1.5'
drainage channel width 1.5'
channel depth 3" to top of bricks
bricks missing in west end.

Metal planting

DESIGN MEMORANDUM (METRIC)

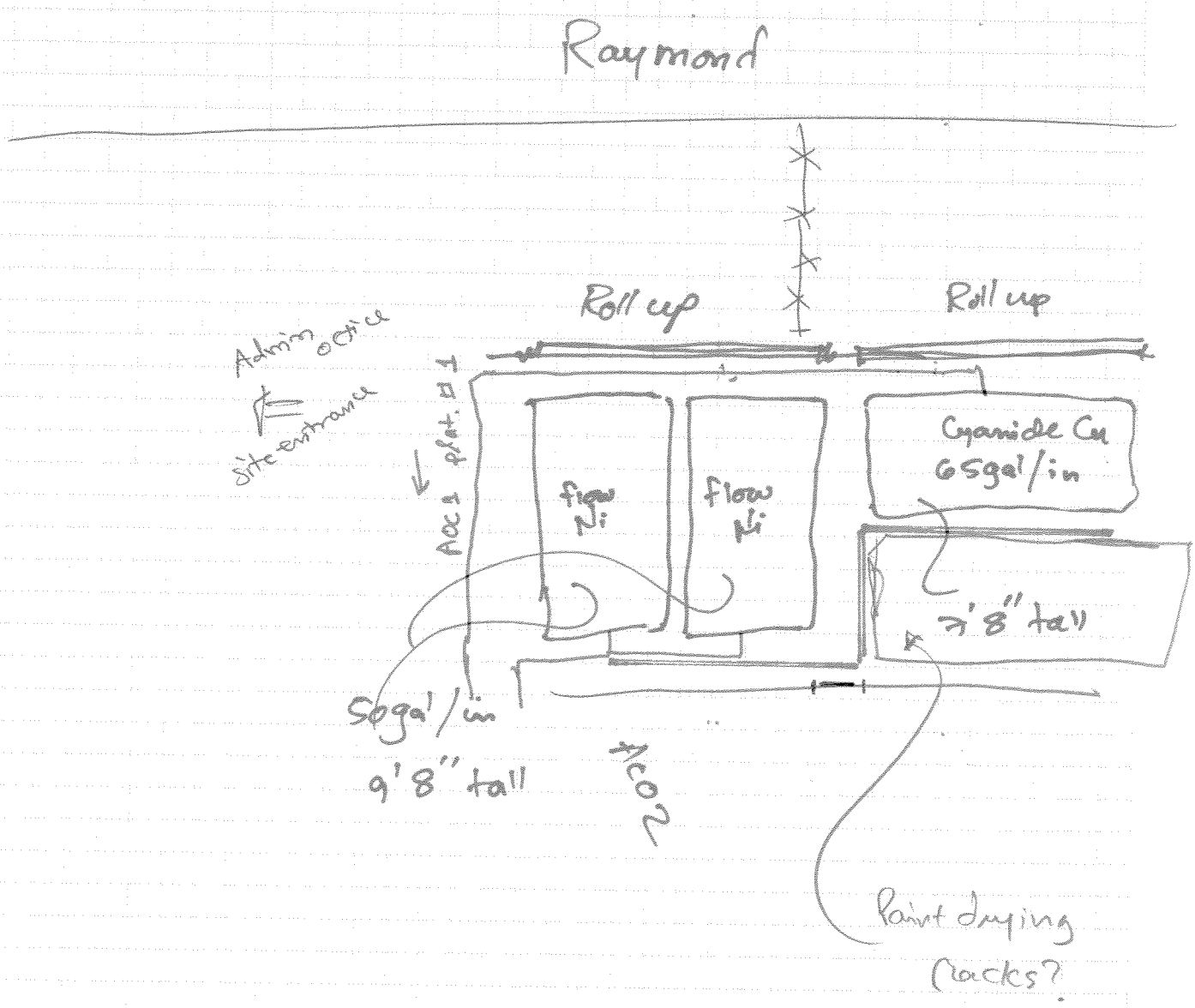
Client: _____ Sheet _____ Of _____

Project: CCPC Date: 9-4-12

Data For: AOC 2, tanks west of Work Order: _____

Prepared By: _____ Checked By: AOC 2 File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM (METRIC)

Client: CCPC

Sheet ____ Of ____

Project: Ac 13 line 6

Date: 9-4-12

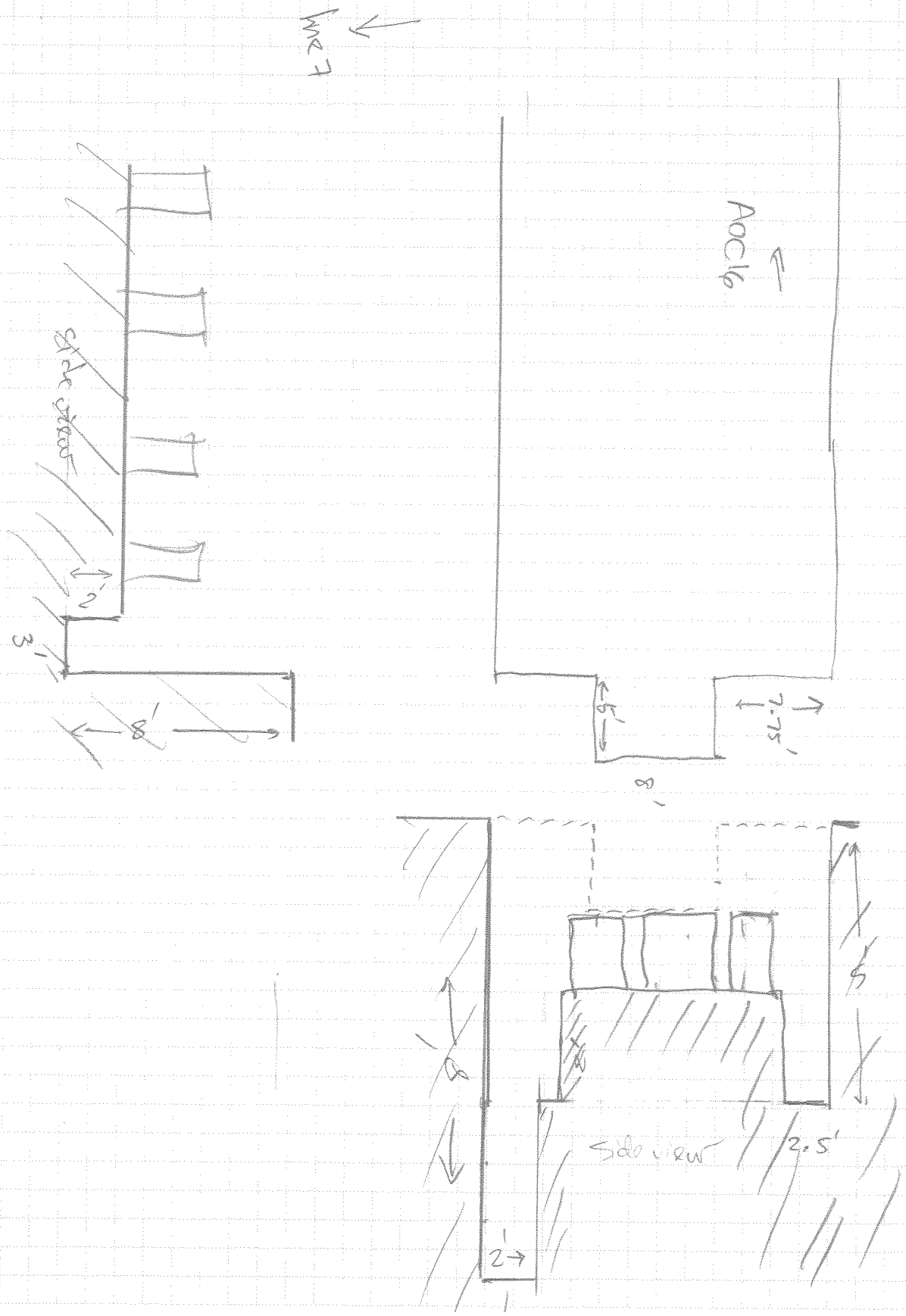
Data For: ____

Work Order: ____

Prepared By: ____ Checked By: ____

File No: ____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM (METRIC)

Client: CCPC

Project: AOC13

Data For: line 6

Prepared By: _____ Checked By: _____

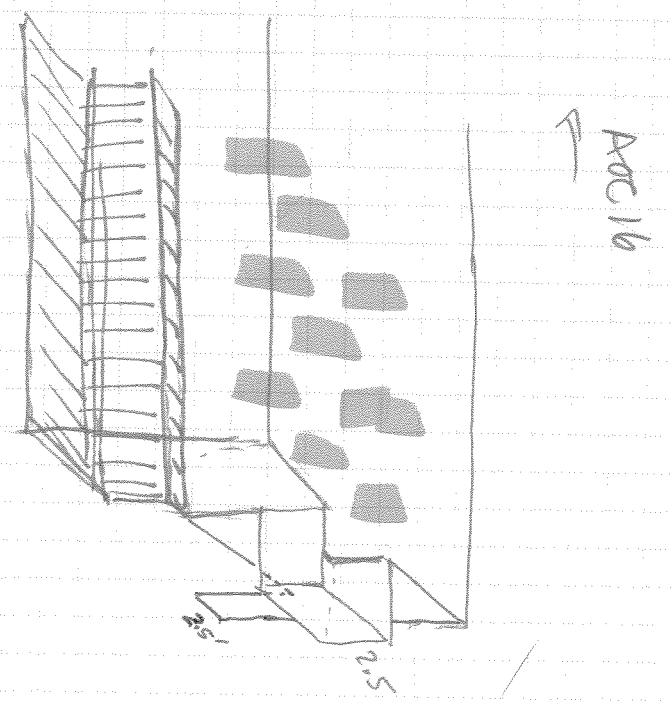
Sheet _____ Of _____

Date: 9-4-12

Work Order: _____

File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM (METRIC)

Client: CCPC

Sheet _____ Of _____

Project:

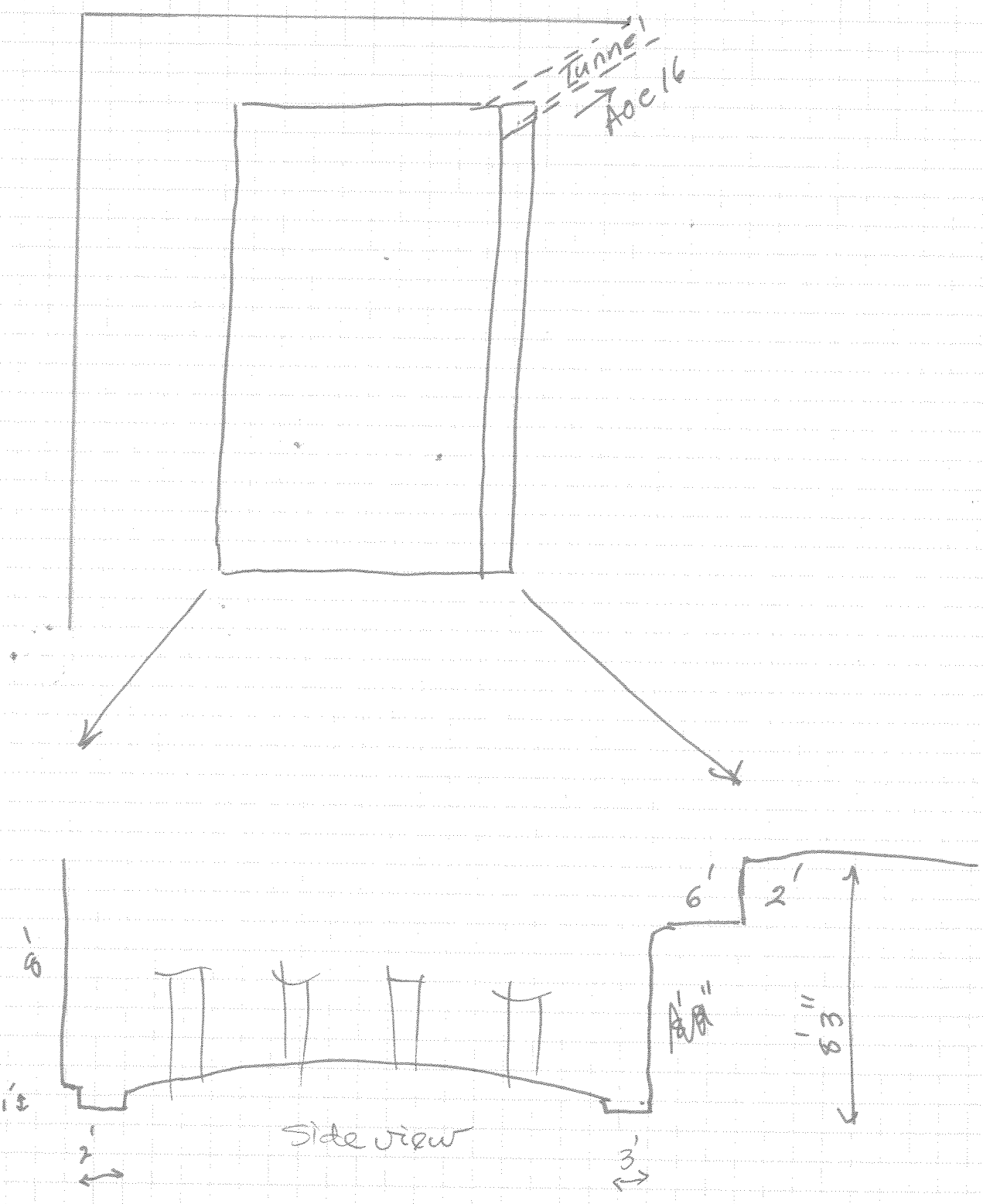
Date: 9-4-12

Data For: Aoe 13 line 7

Work Order:

Prepared By: _____ Checked By: _____ File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM (METRIC)

Client: CCPC

Project: AOC 5

Data For: Plat. #3

Prepared By: _____ Checked By: _____

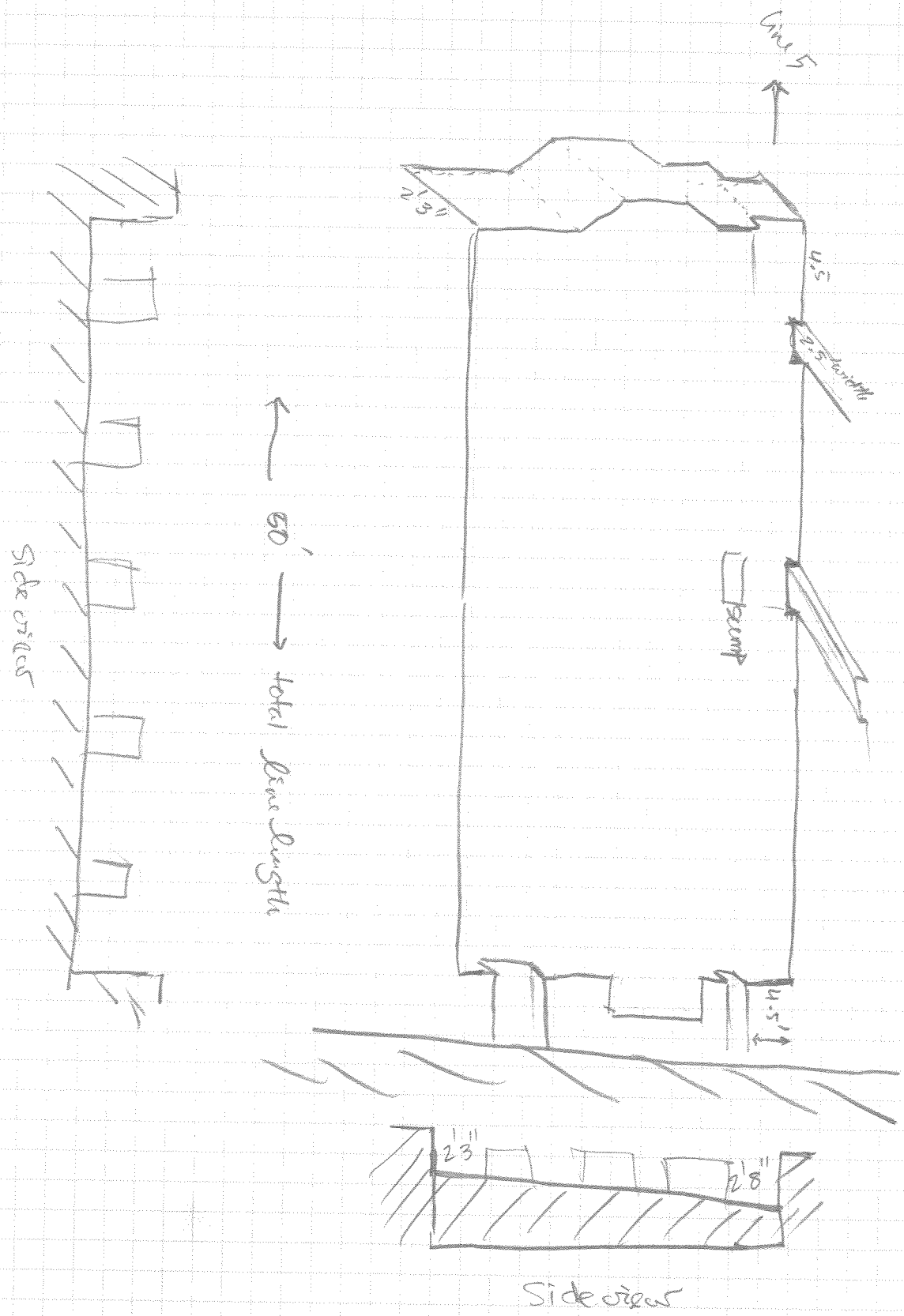
Sheet _____ Of _____

Date: 9-4-12

Work Order: _____

File No: _____

Note: This form must be used for project calculations and original filed in project files



DESIGN MEMORANDUM (METRIC)

Client: CEPC

Sheet _____ Of _____

Project: AOC 5

Date: 9-4-12

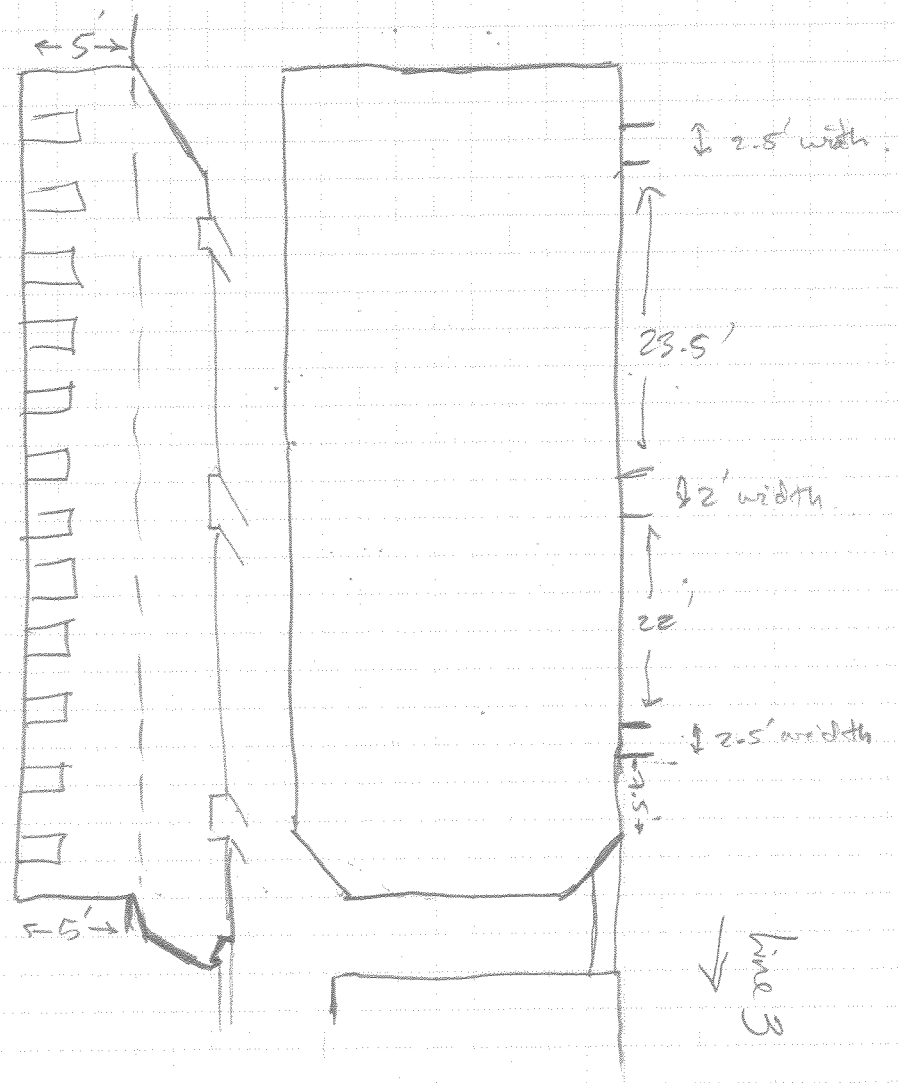
Data For: Plating #5

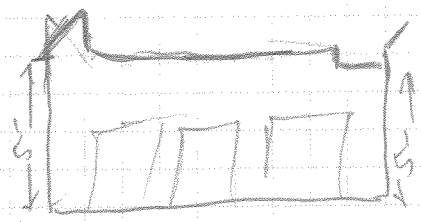
Work Order: _____

Prepared By: _____ Checked By: _____

File No: _____

Note: This form must be used for project calculations and original filed in project files





amec

ESE PROJECT HEALTH AND SAFETY FIELD MEETING FORM

Date: 2/23/12 Time: 845 Project No.: NB1016075

Project Name: Crown City Plating Company

Location: 4350 Temple City Blvd., El Monte, California

Meeting Conducted by: T. Wang

Topics Discussed:
Physical Hazards: Slip/trip/fall, heavy equipment

Chemical Hazards: metals, Cr(VI)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) information for the site: (Applicable warning is checked)

- [x] WARNING: This area contains a chemical known to the State of California to cause cancer.
- [x] WARNING: This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Personal Protection: hard hat, safety glasses, gloves, steel-toed boots

Decontamination: wash hands and face before eating, drinking and smoking or leaving site

Special Site Considerations:

Emergency Information: Methodic Hospital of Southern California, (626) 574-3465, 911

Hospital Location: 300 W. Huntington Drive, Arcadia

Attendees

Name/Company (printed)	Signature
Mario Montoya Kvac	
Andres A. Cortez Kvac	Andres A. Cortez
Jorge Becerril	

Meeting Conducted by: _____
Signature

amec

ESE PROJECT HEALTH AND SAFETY FIELD MEETING FORM

Date: 03/01/2012 Time: 745 Project No.: NB1016075

Project Name: Crown City Plating Company

Location: 4350 Temple City Blvd., El Monte, California

Meeting Conducted by: T. Natung

Topics Discussed:
Physical Hazards: Slip/trip/fall, heavy equipment

Chemical Hazards: metals, Cr(VI)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) information for the site: (Applicable warning is checked)

- [X] WARNING: This area contains a chemical known to the State of California to cause cancer.
- [X] WARNING: This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Personal Protection: hard hat, safety glasses, gloves, steel-toed boots

Decontamination: wash hands and face before eating, drinking and smoking or leaving site

Special Site Considerations:

Emergency Information: Methodic Hospital of Southern California, (626) 574-3465, 911

Hospital Location: 300 W. Huntington Drive, Arcadia

Attendees

Name/Company (printed)	Signature
Darrell Whisler GDT	
James D Moore GDT	
Eric Ramirez Rice	
DAVID Johnson GDT	

Meeting Conducted by: _____
Signature

amec

ESE PROJECT HEALTH AND SAFETY FIELD MEETING FORM

Date: 03-05-2012 Time: 7:35 Project No.: NB1016075

Project Name: Crown City Plating Company

Location: 4350 Temple City Blvd., El Monte, California

Meeting Conducted by: T. Maing

Topics Discussed:
Physical Hazards: Slip/trip/fall, heavy equipment

Chemical Hazards: metals, Cr(VI)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) information for the site: (Applicable warning is checked)

- [x] WARNING: This area contains a chemical known to the State of California to cause cancer.
- [x] WARNING: This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Personal Protection: hard hat, safety glasses, gloves, steel-toed boots

Decontamination: wash hands and face before eating, drinking and smoking or leaving site

Special Site Considerations: _____

Emergency Information: Methodic Hospital of Southern California, (626) 574-3465, 911

Hospital Location: 300 W. Huntington Drive, Arcadia

Attendees

Name/Company (printed)	Signature
James D Moore GDT	
Darrell Whisler GDT	
David Wilson DLJ GDT	

Meeting Conducted by: _____
Signature

amec

ESE PROJECT HEALTH AND SAFETY FIELD MEETING FORM

Date: 3/19/12 Time: 0800 Project No.: NB101607SA

Project Name: Crown City Plating

Location: El Monte, CA

Meeting Conducted by: J. Morse

Topics Discussed:
Physical Hazards:

Chemical Hazards:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) information for the site: (Applicable warning is checked)

- [x] WARNING: This area contains a chemical known to the State of California to cause cancer.
- [x] WARNING: This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Personal Protection: Nitril Gloves

Decontamination:

Special Site Considerations:

Emergency Information:

Hospital Location:

Attendees

Name/Company (printed)	Signature
Andres A. Cortez	Andres A. Cortez
Mario Montoya	[illegible]
Robert Gomez	[illegible]

Meeting Conducted by: [illegible]

Signature

amec

ESE PROJECT HEALTH AND SAFETY FIELD MEETING FORM

Date: 06-19-12 Time: 730 Project No.: NB1016075

Project Name: Crown City Plating Company

Location: 4350 Temple City Blvd., El Monte, California

Meeting Conducted by: T. Paing

Topics Discussed:
Physical Hazards: Slip/trip/fall, heavy equipment

Chemical Hazards: metals, Cr(VI)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) information for the site: (Applicable warning is checked)

☐ WARNING: This area contains a chemical known to the State of California to cause cancer.

☐ WARNING: This area contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Personal Protection: hard hat, safety glasses, gloves, steel-toed boots

Decontamination: wash hands and face before eating, drinking and smoking or leaving site

Special Site Considerations: _____

Emergency Information: Methodic Hospital of Southern California, (626) 574-3465, 911

Hospital Location: 300 W. Huntington Drive, Arcadia

Attendees

Name/Company (printed)	Signature
Rudy Alvarez A&G concrete	[signature]
Johnny Simson Jr INTERPHASE	[signature]
Erik Alvarez Interphase	[signature]

Meeting Conducted by: [signature]
Signature

PROJECT: CROWN CITY PLATING COMPANY	**Log of Boring No. AC01-B5**
BORING LOCATION: AOC01 Platine Line 1	ELEVATION AND DATUM: not surveyed; datum is ground surface
DRILLING CONTRACTOR: Gregg Drilling & Testing, Inc.	DATE STARTED: 3/5/12 / DATE FINISHED: 3/5/12
DRILLING METHOD: direct push	TOTAL DEPTH (ft.): 15.5 / MEASURING POINT: ground surface
DRILLING EQUIPMENT: Ram Set	DEPTH TO WATER: FIRST NA / COMPL. NA / 24 HRS. NA
SAMPLING METHOD: macrocore sampler (1.75"x48")	LOGGED BY: T. Naing
HAMMER WEIGHT: NA / DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde / REG. NO. 7058

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: not surveyed; datum is ground surface	PID READING (ppm)	REMARKS
				concrete (7.5")		
1	AC01-B5-1			SILTY SAND (SM): brown (10YR 4/3), moist, ~70% fine sand, ~30% low plastic fines		
2						
3						Hand augered to 4'
4	AC01-B5-5					
5						
6						
7				POORLY GRADED SAND with SILT (SP-SM): yellowish brown (10YR 5/4), moist, ~90% fine to coarse sand, ~10% nonplastic fines, trace fine gravel		
8						
9						
10	AC01-B5-10					
11						
12						
13						
14						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC01-B5 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		PID READING (ppm)	REMARKS
	AC01-B5-15			POORLY GRADED SAND with SILT (SP-SM):			
15							Boring backfilled with medium bentonite chip and hydrated. Soil sample AC 01-B5 is submitted to PTS for physical properties analysis
				Bottom of boring at 15.5 ft bgs (refusal).			
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

PROJECT: CROWN CITY PLATING COMPANY	**Log of Boring No. AC13-B2**
BORING LOCATION: AOC13 Plastic plating department	ELEVATION AND DATUM: not surveyed; datum is ground surface
DRILLING CONTRACTOR: Gregg Drilling & Testing, Inc.	DATE STARTED: 3/5/12 / DATE FINISHED: 3/5/12
DRILLING METHOD: direct push	TOTAL DEPTH (ft.): 20.0 / MEASURING POINT: ground surface
DRILLING EQUIPMENT: Ram Set	DEPTH TO WATER: FIRST NA / COMPL. NA / 24 HRS. NA
SAMPLING METHOD: macrocore sampler (1.75"x48")	LOGGED BY: T. Naing
HAMMER WEIGHT: NA / DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde / REG. NO. 7058

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: not surveyed; datum is ground surface	PID READING (ppm)	REMARKS
				concrete (7")		
1				POORLY GRADED SAND with SILT (SP-SM): yellowish brown (10YR 5/4), moist, ~90% fine to coarse sand, ~10% nonplastic fines		
2						
3						Hand augered to 4'
4	AC13-B2-5					
5						
6						
7						
8						
9				SILTY SAND (SM): brown (10YR 4/5), moist, ~75% fine to medium sand, ~25% low plastic fines		
10	AC13-B2-10					
11						
12				POORLY GRADED SAND (SP): yellowish brown (10YR 5/4), moist, ~95% fine to coarse sand, ~5% fines, trace fine gravel		
13						
14						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC13-B2 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
	AC13-B2-15			POORLY GRADED SAND (SP): continued		
15						
16						
17						
18						
19						Boring backfilled with medium bentonite chip and hydrated. Soil sample AC13-B2 (depth 10'-11') is submitted to PTS for physical properties analysis
20	AC13-B2-20			Bottom of boring at 20 ft bgs		
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY	**Log of Boring No. AC13-B8**
BORING LOCATION: AOC13 Plastic plating department	ELEVATION AND DATUM: not surveyed; datum is ground surface
DRILLING CONTRACTOR: InterPhase Environmental, Inc.	DATE STARTED: 6/19/12 / DATE FINISHED: 6/19/12
DRILLING METHOD: direct push	TOTAL DEPTH (ft.): 36.0 / MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 6620 DT	DEPTH TO WATER: FIRST NA / COMPL. NA / 24 HRS. NA
SAMPLING METHOD: dual tube soil sampling system	LOGGED BY: T. Naing
HAMMER WEIGHT: NA / DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde / REG. NO. 7058

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ 6 inches	DESCRIPTION: NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
				Surface Elevation: not surveyed; datum is ground surface		
				concrete (8")		
1				SILTY SAND (SM): dark brown (10YR 3/3), moist, ~70% fine sand, ~30% lowplastic fines		
2						
3	AC13-B8-4					
4						
5						
6	AC13-B8-6					
7						
8						
9	AC13-B8-10					
10						
11						
12						
13						
14						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC13-B8 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
				SILTY SAND (SM): continued		
	AC13-B8-15					
15				POORLY GRADED SAND (SP): yellowish brown (10YR 5/4), moist, ~95% fine to medium sand, ~5% fines		
16						
17						
18						
19				fine to coarse sand, trace fine gravel		
	AC13-B8-20					
20						
21						
22						
23						
24	AC13-B8-25			SILTY SAND (SM): brown (10YR 5/4), moist, ~70% fine to medium sand, ~30% low plastic fines		
25						
26				~85% fine to coarse sand, ~15% fines		
27						
28				POORLY GRADED SAND (SP): yellowish brown (10YR 5/4), moist, ~95% fine to coarse sand, ~5% fines		
29						
	AC13-B8-30					
30						
31						

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC13-B8 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		PID READING (ppm)	REMARKS
				POORLY GRADED SAND (SP): continued			
32							
33							
34							
	AC13-B8-35	■					Boring backfilled with granular bentonite chip and hydrated. Surface repaired with concrete
35				Bottom of boring at 35 ft bgs			
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							

PROJECT: CROWN CITY PLATING COMPANY	**Log of Boring No. AC13-B9**
BORING LOCATION: AOC13 Plastic plating department	ELEVATION AND DATUM: not surveyed; datum is ground surface
DRILLING CONTRACTOR: InterPhase Environmental, Inc.	DATE STARTED: 6/19/12 / DATE FINISHED: 6/19/12
DRILLING METHOD: direct push	TOTAL DEPTH (ft.): 40.0 / MEASURING POINT: ground surface
DRILLING EQUIPMENT: Geoprobe 6620 DT	DEPTH TO WATER: FIRST NA / COMPL. NA / 24 HRS. NA
SAMPLING METHOD: dual tube soil sampling system	LOGGED BY: T. Naing
HAMMER WEIGHT: NA / DROP: NA	RESPONSIBLE PROFESSIONAL: J. Bahde / REG. NO. 7058

DEPTH (feet)	SAMPLES: Sample No.	Sample	Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation: not surveyed; datum is ground surface	PID READING (ppm)	REMARKS
				concrete (7")		
1				SILTY SAND (SM): dark brown (10YR 3/3), moist, ~65% fine sand, ~35% low plastic fines		
2						
3						
4	AC13-B9-4	■				
5	AC13-B9-6					
6		■				
7						
8						
9						
10	AC13-B9-10	■				
11						
12						
13						
14						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC13-B9 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
				POORLY GRADED SAND (SP): dark yellowish brown (10YR 4/4), moist, ~95% fine sand, ~5% fines		
15	AC13-B9-15					
16				SILTY SAND (SM): dark brown (10YR 3/3), moist, ~85% fine sand, ~15% fines		
17						
18						
19						
20	AC13-B9-20			POORLY GRADED SAND (SP): light yellowish brown (10YR 6/4), moist, ~95% fine to coarse sand, ~5% fines		
21						
22						
23						
24	AC13-B9-25			fine sand		
25						
26						
27						
28				fine to coarse sand, trace fine gravel		
29	AC13-B9-30					
30						
31						

RMRK3

PROJECT: CROWN CITY PLATING COMPANY

Log of Boring No. AC13-B9 (cont'd)

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	SAMPLES: Blows/ 6 inches	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	PID READING (ppm)	REMARKS
				SILTY SAND (SM): olive (5Y 4/4), moist, ~65% fine sand, ~35% low plastic fines		
32						
33						
34	AC13-B9-35					
35						
36						
37						
38						
39	AC13-B9-40					Boring backfilled with granular bentonite chip and hydrated. Surface repaired with concrete
40				Bottom of boring at 40 ft bgs		
41						
42						
43						
44						
45						
46						
47						
48						

RMRK3

APPENDIX D

Grain Size Analysis Laboratory Report

PTS Laboratories, Inc.

8100 Secura Way • Santa Fe Springs, CA 90670
Telephone (562) 347-2500 • Fax (562) 907-3610

March 20, 2012

Joe Bahde
AMEC Geomatrix
121 Innovation Drive, Suite 200
Irvine, CA 92617-3094

Re: PTS File No: 42155
Physical Properties Data
Crown City Plating Company; NB1016075A

Dear Mr. Bahde:

Please find enclosed report for Physical Properties analyses conducted upon samples received from your Crown City Plating Company; NB1016075A project. All analyses were performed by applicable ASTM, EPA, or API methodologies. An electronic version of the report has previously been sent to your attention via the internet. The samples are currently in storage and will be retained for thirty days past completion of testing at no charge. Please note that the samples will be disposed of at that time. You may contact me regarding storage, disposal, or return of the samples.

PTS Laboratories appreciates the opportunity to be of service. If you have any questions or require additional information, please contact Rachel Spitz at (562) 347-2504.

Sincerely,
PTS Laboratories

for Rachel Spitz

Michael Mark Brady, P.G.
District Manager

Encl.

PTS Laboratories

Project Name: Crown City Plating Company
Project Number: NB1016075A

PTS File No: 42155
Client: AMEC Geomatrix

TEST PROGRAM - 20120306

CORE ID	Depth ft.	Core Recovery ft.	Grain Size Analysis ASTM D4464 & 422					Notes
		Plugs:	Grab					
Date Received: 20120306								
AC01-B5	N/A	0.79	X					
AC13-B2	N/A	0.63	X					
TOTALS:	2 cores	1.42	2					2

Laboratory Test Program Notes

Standard TAT for basic analysis is 10-15 business days.

PTS Laboratories, Inc.

AMEC Geomatrix
PTS File No: 42155

PARTICLE SIZE SUMMARY

(METHODOLOGY: Sieve + Laser Diffraction Analysis - ASTM D422/4464)

PROJECT NAME: Crown City Plating Company
PROJECT NO: NB1016075A

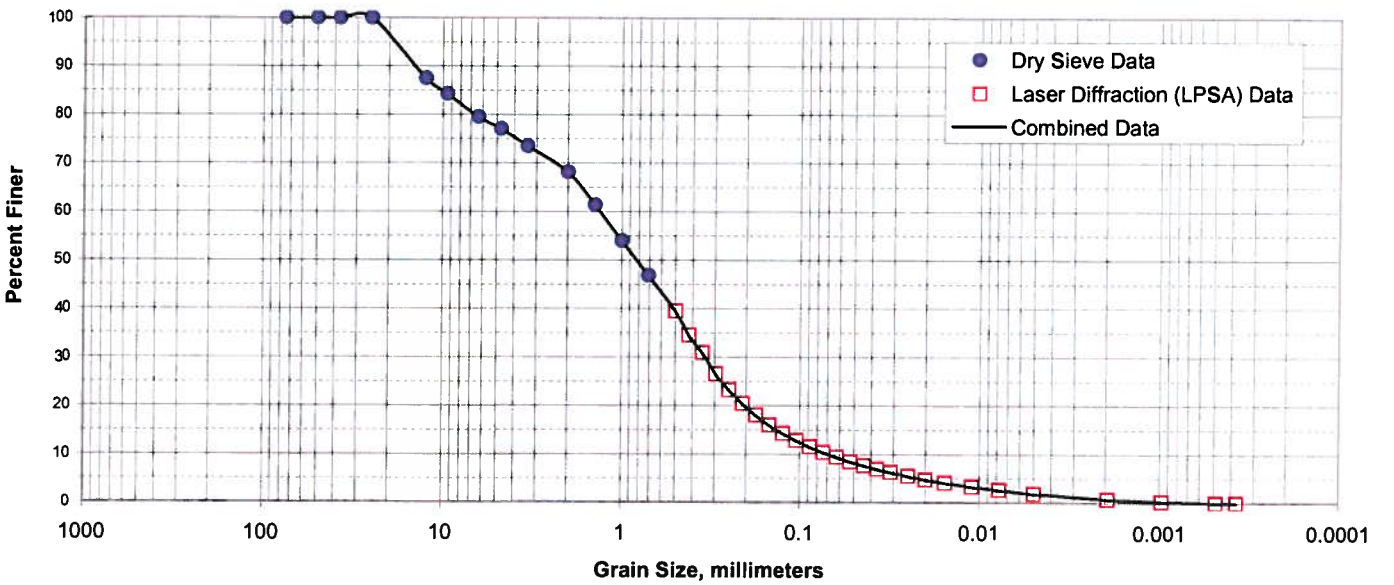
Sample ID	Depth, ft.	Median Grain Size Description	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
AC01-B5	N/A	Medium sand	0.828	23.00	8.93	33.53	24.15	8.51	1.85	10.36
AC13-B2	N/A	Fine sand	0.167	1.19	0.74	11.42	55.87	25.66	5.09	30.75

PTS Laboratories, Inc.

Sieve + Laser Diffraction Analysis - ASTM D422/4464

Client:	AMEC Geomatrix	**PTS File No:**	42155
Project:	Crown City Plating Company	**Sample ID:**	AC01-B5
Project No:	NB1016075A	**Depth, ft:**	N/A

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data

Opening inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
2.95	75.0	-6.23	3"	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00
0.492	12.5	-3.64	1/2	12.55	87.45
0.374	9.50	-3.25	3/8	15.79	84.21
0.250	6.35	-2.67	1/4	20.51	79.49
0.187	4.76	-2.25	4	23.00	77.00
0.132	3.36	-1.75	6	26.57	73.43
0.079	2.00	-1.00	10	31.93	68.07
0.056	1.414	-0.50	14	38.73	61.27
0.039	1.000	0.00	18	46.13	53.87
0.028	0.707	0.50	25	53.26	46.74
0.020	0.500	1.00	35	60.76	39.24
0.017	0.420	1.25	40	64.13	35.87
0.014	0.354	1.50	45	67.89	32.11
0.010	0.250	2.00	60	75.53	24.47
0.007	0.1768	2.50	80	81.67	18.33
0.005	0.1250	3.00	120	87.03	12.97
0.003	0.0743	3.75	200	91.14	8.86
0.002	0.0526	4.25	270	91.19	8.81
0.001	0.0372	4.75	400	91.22	8.78
			PAN	100	0.00

Laser Diffraction (LPSA) Data

Opening inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
0.250	6.351	-2.67	1/4	0.00	100.00
0.187	4.757	-2.25	4	0.00	100.00
0.132	3.364	-1.75	6	0.00	100.00
0.079	2.000	-1.00	10	0.00	100.00
0.047	1.189	-0.25	16	17.90	82.10
0.033	0.841	0.25	20	37.90	62.10
0.028	0.707	0.50	25	47.03	52.97
0.023	0.595	0.75	30	54.53	45.47
0.020	0.500	1.00	35	60.53	39.47
0.017	0.420	1.25	40	65.47	34.53
0.0139	0.3536	1.50	45	69.06	30.94
0.0117	0.2973	1.75	50	73.45	26.55
0.0098	0.2500	2.00	60	76.74	23.26
0.0083	0.2102	2.25	70	79.57	20.43
0.0070	0.1768	2.50	80	81.96	18.04
0.0059	0.1487	2.75	100	83.99	16.01
0.0049	0.1250	3.00	120	85.72	14.28
0.0041	0.1051	3.25	140	87.20	12.80
0.0035	0.0884	3.50	170	88.48	11.52
0.0029	0.0743	3.75	200	89.62	10.38
0.0025	0.0625	4.00	230	90.63	9.37
0.0021	0.0526	4.25	270	91.53	8.47
0.0017	0.0442	4.50	325	92.34	7.66
0.0015	0.0372	4.75	400	93.08	6.92
0.0012	0.0313	5.00	450	93.75	6.25
0.0010	0.0250	5.32	500	94.53	5.47
0.0008	0.0201	5.64	635	95.22	4.78
0.0006	0.0156	6.00		95.90	4.10
0.0004	0.0110	6.50		96.70	3.30
0.0003	0.0078	7.00		97.39	2.61
0.0002	0.0050	7.65		98.13	1.87
0.00008	0.00195	9.00		99.25	0.75
0.00004	0.00098	10.00		99.75	0.25
0.00002	0.00049	11.00		99.98	0.02
0.00001	0.00038	11.38		100.00	0.00

© PTS Laboratories, Inc.
Phone: (562) 347-2500 Fax: (562) 907-3610

PTS Laboratories, Inc.

Sieve + Laser Diffraction Analysis - ASTM D422/4464

Client:	AMEC Geomatrix	**PTS File No:**	42155
Project:	Crown City Plating Company	**Sample ID:**	AC01-B5
Project No:	NB1016075A	**Depth, ft:**	N/A

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

Opening		Phi of	U.S. Sieve	Incremental Percent	Percent	Cumulative Percent
Inches	Millimeters	Screen	No.	Finer	Finer	Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	12.5	87.5	12.5
0.374	9.50	-3.25	3/8	3.2	84.2	15.8
0.250	6.35	-2.67	1/4	4.7	79.5	20.5
0.1873	4.76	-2.25	4	2.5	77.0	23.0
0.1324	3.364	-1.75	6	3.6	73.4	26.6
0.0787	2.000	-1.00	10	5.4	68.1	31.9
0.0557	1.414	-0.50	14	6.8	61.3	38.7
0.0394	1.000	0.00	18	7.4	53.9	46.1
0.0278	0.707	0.50	25	7.1	46.7	53.3
0.0197	0.500	1.00	35	7.3	39.5	60.5
0.01655	0.420	1.25	40	4.9	34.5	65.5
0.01392	0.354	1.50	45	3.6	30.9	69.1
0.01170	0.2973	1.75	50	4.4	26.6	73.4
0.00984	0.2500	2.00	60	3.3	23.3	76.7
0.00828	0.2102	2.25	70	2.8	20.4	79.6
0.00696	0.1768	2.50	80	2.4	18.0	82.0
0.00585	0.1487	2.75	100	2.0	16.0	84.0
0.00492	0.1250	3.00	120	1.7	14.3	85.7
0.00414	0.1051	3.25	140	1.5	12.8	87.2
0.00348	0.0884	3.50	170	1.3	11.5	88.5
0.00293	0.0743	3.75	200	1.1	10.4	89.6
0.00246	0.0625	4.00	230	1.0	9.4	90.6
0.00207	0.0526	4.25	270	0.9	8.5	91.5
0.00174	0.0442	4.50	325	0.8	7.7	92.3
0.00146	0.0372	4.75	400	0.7	6.9	93.1
0.00123	0.0313	5.00	450	0.7	6.3	93.7
0.00099	0.0250	5.32	500	0.8	5.5	94.5
0.00079	0.0201	5.64	635	0.7	4.8	95.2
0.00062	0.0156	6.00		0.7	4.1	95.9
0.00043	0.0110	6.50		0.8	3.3	96.7
0.00031	0.0078	7.00		0.7	2.6	97.4
0.00020	0.0050	7.65		0.7	1.9	98.1
0.00008	0.0020	9.00		1.1	0.8	99.2
0.00004	0.0010	10.00		0.5	0.3	99.7
0.00002	0.0005	11.00		0.2	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS

Cumulative Percent greater than (retained)			
Weight	Phi	Particle Size	
percent	Value	Inches	Millimeters
5	-4.25	0.7468	18.967
10	-3.85	0.5665	14.389
16	-3.22	0.3675	9.334
25	-1.97	0.1543	3.919
40	-0.41	0.0525	1.333
50	0.27	0.0326	0.828
60	0.96	0.0202	0.513
75	1.87	0.0108	0.274
84	2.75	0.0058	0.148
90	3.84	0.0027	0.070
95	5.54	0.0008	0.022

Measure	Trask	Inman	Folk-Ward
Median, phi	0.27	0.27	0.27
Median, in.	0.0326	0.0326	0.0326
Median, mm	0.828	0.828	0.828
Mean, phi	-1.07	-0.24	-0.07
Mean, in.	0.0825	0.0463	0.0412
Mean, mm	2.096	1.177	1.047
Sorting	3.782	3.211	3.102
Skewness	1.251	0.020	-0.008
Kurtosis	0.127	0.538	0.860

Grain Size Description (ASTM-USCS Scale)	Medium sand (based on Trask Median)

Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	23.0
Coarse Sand	10	8.9
Medium Sand	40	33.5
Fine Sand	200	24.2
Silt	>0.005 mm	8.5
Clay	<0.005 mm	1.9
	Total	100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

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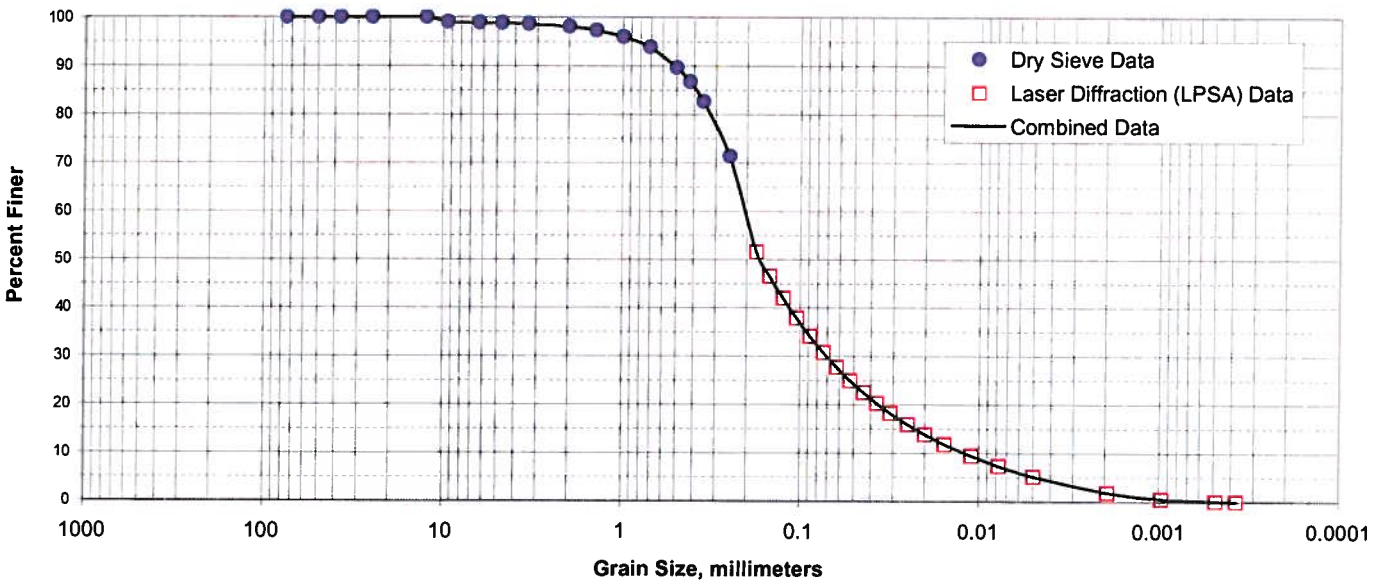
PTS Laboratories, Inc.

Sieve + Laser Diffraction Analysis - ASTM D422/4464

Client:	AMEC Geomatrix	**PTS File No:**	42155
Project:	Crown City Plating Company	**Sample ID:**	AC13-B2
Project No:	NB1016075A	**Depth, ft:**	N/A

COMBINED SIEVE + LASER DIFFRACTION DATA



Dry Sieve Data

Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
2.95	75.0	-6.23	3"	0.00	100.00
1.97	50.0	-5.64	2"	0.00	100.00
1.48	37.5	-5.23	1-1/2"	0.00	100.00
0.984	25.0	-4.64	1	0.00	100.00
0.492	12.5	-3.64	1/2	0.00	100.00
0.374	9.50	-3.25	3/8	0.97	99.03
0.250	6.35	-2.67	1/4	1.10	98.90
0.187	4.76	-2.25	4	1.19	98.81
0.132	3.36	-1.75	6	1.40	98.60
0.079	2.00	-1.00	10	1.92	98.08
0.056	1.414	-0.50	14	2.71	97.29
0.039	1.000	0.00	18	4.00	96.00
0.028	0.707	0.50	25	6.15	93.85
0.020	0.500	1.00	35	10.42	89.58
0.017	0.420	1.25	40	13.34	86.66
0.014	0.354	1.50	45	17.46	82.54
0.010	0.250	2.00	60	28.71	71.29
0.007	0.1768	2.50	80	40.69	59.31
0.005	0.1250	3.00	120	54.46	45.54
0.003	0.0743	3.75	200	67.00	33.00
0.002	0.0526	4.25	270	67.16	32.84
0.001	0.0372	4.75	400	67.16	32.84
			PAN	100	0.00

Laser Diffraction (LPSA) Data

Opening Inches	Opening Millimeters	Phi of Screen	U.S. Sieve No.	Cumulative Weight, percent	Percent Finer
0.250	6.351	-2.67	1/4	0.00	100.00
0.187	4.757	-2.25	4	0.00	100.00
0.132	3.364	-1.75	6	0.00	100.00
0.079	2.000	-1.00	10	0.00	100.00
0.047	1.189	-0.25	16	1.95	98.05
0.033	0.841	0.25	20	7.10	92.90
0.028	0.707	0.50	25	10.32	89.68
0.023	0.595	0.75	30	13.92	86.08
0.020	0.500	1.00	35	18.05	81.95
0.017	0.420	1.25	40	22.53	77.47
0.0139	0.3536	1.50	45	26.47	73.53
0.0117	0.2973	1.75	50	32.30	67.70
0.0098	0.2500	2.00	60	37.67	62.33
0.0083	0.2102	2.25	70	43.16	56.84
0.0070	0.1768	2.50	80	48.45	51.55
0.0059	0.1487	2.75	100	53.41	46.59
0.0049	0.1250	3.00	120	57.98	42.02
0.0041	0.1051	3.25	140	62.11	37.89
0.0035	0.0884	3.50	170	65.83	34.17
0.0029	0.0743	3.75	200	69.21	30.79
0.0025	0.0625	4.00	230	72.28	27.72
0.0021	0.0526	4.25	270	75.04	24.96
0.0017	0.0442	4.50	325	77.51	22.49
0.0015	0.0372	4.75	400	79.73	20.27
0.0012	0.0313	5.00	450	81.75	18.25
0.0010	0.0250	5.32	500	84.09	15.91
0.0008	0.0201	5.64	635	86.15	13.85
0.0006	0.0156	6.00		88.15	11.85
0.0004	0.0110	6.50		90.56	9.44
0.0003	0.0078	7.00		92.64	7.36
0.0002	0.0050	7.65		94.87	5.13
0.00008	0.00195	9.00		98.13	1.87
0.00004	0.00098	10.00		99.45	0.55
0.00002	0.00049	11.00		99.96	0.04
0.00001	0.00038	11.38		100.00	0.00

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PTS Laboratories, Inc.

Sieve + Laser Diffraction Analysis - ASTM D422/4464

Client:	AMEC Geomatrix	**PTS File No:**	42155
Project:	Crown City Plating Company	**Sample ID:**	AC13-B2
Project No:	NB1016075A	**Depth, ft:**	N/A

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

(Tabular Data plus Statistics)

SIEVE ANALYSIS AND LASER DIFFRACTION METHOD COMBINED DATA

Opening		Phi of	U.S. Sieve	Incremental Percent	Percent	Cumulative Percent
Inches	Millimeters	Screen	No.	Finer	Finer	Retained
2.95	75.0	-6.23	3"	0.0	100.0	0.0
1.97	50.0	-5.64	2"	0.0	100.0	0.0
1.48	37.5	-5.23	1-1/2"	0.0	100.0	0.0
0.984	25.0	-4.64	1.00	0.0	100.0	0.0
0.492	12.5	-3.64	1/2	0.0	100.0	0.0
0.374	9.50	-3.25	3/8	1.0	99.0	1.0
0.250	6.35	-2.67	1/4	0.1	98.9	1.1
0.1873	4.76	-2.25	4	0.1	98.8	1.2
0.1324	3.364	-1.75	6	0.2	98.6	1.4
0.0787	2.000	-1.00	10	0.5	98.1	1.9
0.0557	1.414	-0.50	14	0.8	97.3	2.7
0.0394	1.000	0.00	18	1.3	96.0	4.0
0.0278	0.707	0.50	25	2.2	93.8	6.2
0.0197	0.500	1.00	35	4.3	89.6	10.4
0.01655	0.420	1.25	40	2.9	86.7	13.3
0.01392	0.354	1.50	45	4.1	82.5	17.5
0.00984	0.2500	2.00	60	11.3	71.3	28.7
0.00696	0.1768	2.50	80	19.7	51.6	48.4
0.00585	0.1487	2.75	100	5.0	46.6	53.4
0.00492	0.1250	3.00	120	4.6	42.0	58.0
0.00414	0.1051	3.25	140	4.1	37.9	62.1
0.00348	0.0884	3.50	170	3.7	34.2	65.8
0.00293	0.0743	3.75	200	3.4	30.8	69.2
0.00246	0.0625	4.00	230	3.1	27.7	72.3
0.00207	0.0526	4.25	270	2.8	25.0	75.0
0.00174	0.0442	4.50	325	2.5	22.5	77.5
0.00146	0.0372	4.75	400	2.2	20.3	79.7
0.00123	0.0313	5.00	450	2.0	18.3	81.7
0.00099	0.0250	5.32	500	2.3	15.9	84.1
0.00079	0.0201	5.64	635	2.1	13.9	86.1
0.00062	0.0156	6.00		2.0	11.9	88.1
0.00043	0.0110	6.50		2.4	9.4	90.6
0.00031	0.0078	7.00		2.1	7.4	92.6
0.00020	0.0050	7.65		2.2	5.1	94.9
0.00008	0.0020	9.00		3.3	1.9	98.1
0.00004	0.0010	10.00		1.3	0.6	99.4
0.00002	0.0005	11.00		0.5	0.0	100.0
TOTALS				100.0		100.0

COMBINED DATA STATISTICS

Cumulative Percent greater than (retained)			
Weight	Phi	Particle Size	
percent	Value	Inches	Millimeters
5	0.23	0.0335	0.851
10	0.95	0.0204	0.517
16	1.41	0.0148	0.376
25	1.84	0.0110	0.280
40	2.29	0.0081	0.205
50	2.58	0.0066	0.167
60	3.12	0.0045	0.115
75	4.25	0.0021	0.053
84	5.31	0.0010	0.025
90	6.38	0.0005	0.012
95	7.70	0.0002	0.005

Measure	Trask	Inman	Folk-Ward
Median, phi	2.58	2.58	2.58
Median, in.	0.0066	0.0066	0.0066
Median, mm	0.167	0.167	0.167
Mean, phi	2.59	3.36	3.10
Mean, in.	0.0066	0.0038	0.0046
Mean, mm	0.166	0.097	0.117
Sorting	2.307	3.211	3.102
Skewness	0.726	0.020	-0.008
Kurtosis	0.225	0.538	0.860
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Trask Median)	

Description (ASTM-USCS Scale)	Retained on Sieve #	Weight Percent
Gravel	4	1.2
Coarse Sand	10	0.7
Medium Sand	40	11.4
Fine Sand	200	55.9
Silt	>0.005 mm	25.7
Clay	<0.005 mm	5.1
	Total	100

Notes: Dry sieve preparation was drying followed by pass/retained (wash) on 200 sieve.

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CHAIN-OF-CUSTODY RECORD

42155

NB 33791

PROJECT NAME: Crown City Plating Company

DATE: 03/05/12 PAGE 1 OF 1

PROJECT NUMBER: NB1016075A

RESULTS TO: Joseph Bardte

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Drop off at lab

LABORATORY NAME: PTS

LABORATORY ADDRESS:

LABORATORY CONTACT: Rachel Spitz

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	Grain Size Analysis (D422/4464)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/05/12	1015	AC01-B5	X	Acetate liner	S		–	✓		1	
↓	1455	AC13-B2	X	↓	S		–	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/6/12	15 39	SIGNATURE: [signature]	3/6/12	1539
PRINTED NAME: Thet Naing			PRINTED NAME: Joel Perez		
COMPANY: AMEC			COMPANY: PTS Labs Inc		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 2

SAMPLING COMMENTS:

44°
F

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

APPENDIX E

Calscience Environmental Laboratories
Analytical Data Laboratory Reports

Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0061

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/08/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-03-0061

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2.1 MS/MSD and/or Duplicate 4
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4 Chain of Custody/Sample Receipt Form 7

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/01/12
121 Innovation Drive		Work Order No:	12-03-0061
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-030112	**12-03-0061-1-A**	**03/01/12 15:00**	**Aqueous**	**IC 14**	**N/A**	**03/01/12 17:37**	**120301L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Method Blank	**099-05-123-3,082**	**N/A**	**Aqueous**	**IC 14**	**N/A**	**03/01/12 12:27**	**120301L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/01/12
121 Innovation Drive		Work Order No:	12-03-0061
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0063-1	**Aqueous**	**IC 14**	**N/A**	**03/01/12**	**120301S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	92	93	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0061
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,082	**Aqueous**	**IC 14**	**N/A**	**03/01/12**	**120301L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	100	100	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Return to Contents

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0061

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

Return to Contents

CHAIN-OF-CUSTODY RECORD

NB33770

PROJECT NAME: Crown City Plating Company			DATE: 03-01-2012 PAGE 1 OF 1
PROJECT NUMBER: NB101660 75 A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

12-03-0061

SAMPLERS (SIGNATURE):

ANALYSES

DATE	TIME	SAMPLE NUMBER	Hexavalent Chromium (7199)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/01/12	1500	QCEB-030112	X	250 mL HDPE	W		—	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	3/1/12	1715	SIGNATURE:	3/1/12	1715
PRINTED NAME: Thet Naing			PRINTED NAME: PRECY SORIANO		
COMPANY: AMEC			COMPANY: CQ		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 1

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0061

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/01/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C - 0.3 °C (CF) = 2.2 °C ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: PS

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: PS

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: PS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** PS

Container: C: Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** YL

Preservative: h: HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** PS

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0174

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/09/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Crown City Plating Company / NB016075A
Work Order Number: 12-03-0174

1 Client Sample Data 3
1.1 EPA 7199 Chromium VI (Aqueous) 3

2 Quality Control Sample Data 4
2.1 MS/MSD and/or Duplicate 4
2.2 LCS/LCSD 5

3 Glossary of Terms and Qualifiers 6

4 Chain of Custody/Sample Receipt Form 7

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/02/12
121 Innovation Drive		Work Order No:	12-03-0174
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-030212	**12-03-0174-1-A**	**03/02/12 14:10**	**Aqueous**	**IC 14**	**N/A**	**03/02/12 17:05**	**120302L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Method Blank	**099-05-123-3,084**	**N/A**	**Aqueous**	**IC 14**	**N/A**	**03/02/12 09:27**	**120302L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/02/12
121 Innovation Drive		Work Order No:	12-03-0174
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0092-10	**Aqueous**	**IC 14**	**N/A**	**03/02/12**	**120302S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	91	92	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0174
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,084	**Aqueous**	**IC 14**	**N/A**	**03/02/12**	**120302L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	103	102	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0174

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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CHAIN-OF-CUSTODY RECORD

NB33774

PROJECT NAME: Crown City Plating Company			DATE: 03/02/2012 PAGE 1 OF 1
PROJECT NUMBER: NB1016075 A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		12-03-0174
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): Thet Naing

ANALYSES

DATE	TIME	SAMPLE NUMBER	Hexavalent Chromium (7199)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/02/12	1410	ACEB-030212	X	250mL HDPE	W		—	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Thet Naing	3/2/12	16:40	SIGNATURE: Dannyle	3/2/12	16:40
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CEL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 1

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0174

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/02/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.6 °C - 0.3 °C (CF) = 2.3 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: BC

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: BC

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: BC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** MC

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** [illegible]

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** [illegible]

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0282

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/13/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

Contents

Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-03-0282

1 Client Sample Data 3
1.1 EPA 7199 Chromium VI (Aqueous) 3

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2.1 MS/MSD and/or Duplicate 4
2.2 LCS/LCSD 5

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/05/12
121 Innovation Drive		Work Order No:	12-03-0282
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-030512	**12-03-0282-1-A**	**03/05/12 15:30**	**Aqueous**	**IC 14**	**N/A**	**03/05/12 19:59**	**120305L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Method Blank	**099-05-123-3,085**	**N/A**	**Aqueous**	**IC 14**	**N/A**	**03/05/12 19:19**	**120305L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/05/12
121 Innovation Drive		Work Order No:	12-03-0282
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0280-1	**Aqueous**	**IC 14**	**N/A**	**03/05/12**	**120305S01A**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	97	98	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0282
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,085	**Aqueous**	**IC 14**	**N/A**	**03/05/12**	**120305L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	100	100	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0282

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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CHAIN-OF-CUSTODY RECORD

NB33776

PROJECT NAME: Crown City Plating Company			DATE: 03/05/2012 PAGE 1 OF 1
PROJECT NUMBER: NB101600 75A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bande	LABORATORY ADDRESS:		12-03-0282
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	Hexavalent Chromium (7196)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1 03/05/12	1530	QCEB-030512	X	~~125~~ 250 mL HDPE TN	W		—	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/05/12	17:32	SIGNATURE: [signature]	3/5/12	17:32
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CCL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 1

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

Return to Contents

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0282

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/05/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.4 °C - 0.3 °C (CF) = 2.1 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: bL

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: bL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: RS

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** N

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** DC

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** bL

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0362

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/13/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-03-0362

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0362
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-030612	**12-03-0362-1-A**	**03/06/12 14:00**	**Aqueous**	**IC 14**	**N/A**	**03/06/12 18:47**	**120306L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Method Blank	**099-05-123-3,086**	**N/A**	**Aqueous**	**IC 14**	**N/A**	**03/06/12 10:13**	**120306L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/06/12
121 Innovation Drive		Work Order No:	12-03-0362
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0285-1	**Aqueous**	**IC 14**	**N/A**	**03/06/12**	**120306S01**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	93	93	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0362
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,086	**Aqueous**	**IC 14**	**N/A**	**03/06/12**	**120306L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	101	99	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0362

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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NB 33780

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company			DATE: 03-06-2012 PAGE 1 OF 1
PROJECT NUMBER: NB10160075A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		12-03-0362
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): Thet Naing

ANALYSES

DATE	TIME	SAMPLE NUMBER	Hexavalent Chromium (7199)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/06/12	1400	QCEB-030612	X	250mL HDPE	W		—	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Thet Naing	03/06/12	16:32	SIGNATURE: [illegible]	3/6/12	16:32
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CCL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 1

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0362

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/06/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.2 °C - 0.3 °C (CF) = 2.9 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: b.L

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: bL

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: b.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** b.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** YL

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** YL

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-03-0561

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 03/15/2012 by:
Stephen Nowak
Project Manager

ResultLink

Email your PM

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

Calscience Environmental Laboratories, Inc.

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Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-03-0561

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC Environment & Infrastructure		Date Received:	03/08/12
121 Innovation Drive		Work Order No:	12-03-0561
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-030812	**12-03-0561-1-A**	**03/08/12 15:50**	**Aqueous**	**IC 14**	**N/A**	**03/08/12 18:11**	**120308L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Method Blank	**099-05-123-3,088**	**N/A**	**Aqueous**	**IC 14**	**N/A**	**03/08/12 10:12**	**120308L01**

Parameter	Result	RL	DF	Qual	Units
Chromium, Hexavalent	ND	1.0	1		ug/L

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	03/08/12
121 Innovation Drive		Work Order No:	12-03-0561
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-03-0475-2	**Aqueous**	**IC 14**	**N/A**	**03/08/12**	**120308S01A**

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	95	96	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-03-0561
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,088	**Aqueous**	**IC 14**	**N/A**	**03/08/12**	**120308L01**

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	99	99	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-03-0561

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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CHAIN-OF-CUSTODY RECORD

NB 33785

PROJECT NAME: Crown City Plating Company			DATE: 03/08/2012 PAGE 1 OF 1
PROJECT NUMBER: NB10160075A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bonde	LABORATORY ADDRESS:		12-03-0561
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Hexavalent Chromium (7199)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	03/08/12	1550	QCEB-030812	X	250 mL HDPE	W		–	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	3/8/12	17:15	SIGNATURE:	3/8/12	17:15
PRINTED NAME: Thet Naing			PRINTED NAME: DANNY LE		
COMPANY: AMEC			COMPANY: CCL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 1

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-03-0561

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: AMEC

DATE: 03/08/12

TEMPERATURE: Thermometer ID: SC3 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.6 °C - 0.3 °C (CF) = 1.3 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: b.L

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: b.L

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Initial: b.L

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s** ☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB ☑250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** b.L

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** WSC

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** WSC

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Calscience Environmental Laboratories, Inc.

CALSCIENCE

WORK ORDER NUMBER: 12-06-1318

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: AMEC Environment & Infrastructure

Client Project Name: Crown City Plating Company / NB1016075A

Attention: Joseph Bahde
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Approved for release on 06/26/2012 by:
Stephen Nowak
Project Manager

ResultLink ▸

Email your PM ▸

Calscience Environmental Laboratories, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

Calscience Environmental Laboratories, Inc.

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Client Project Name: Crown City Plating Company / NB1016075A
Work Order Number: 12-06-1318

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Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: 06/19/12
Work Order No: 12-06-1318

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
AC13-B9-6.0	**12-06-1318-2**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

AC13-B8-6.0	**12-06-1318-5**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

SW8a-0.5	**12-06-1318-9**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

SW8b-0.5	**12-06-1318-11**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

SW4b-0.5	**12-06-1318-13**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

SW4a-0.5	**12-06-1318-15**	**06/19/12**	**Solid**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)

Return to Contents

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

AMEC Environment & Infrastructure
121 Innovation Drive
Suite 200
Irvine, CA 92617-3094

Date Received: 06/19/12
Work Order No: 12-06-1318

Project: Crown City Plating Company / NB1016075A

Client Sample Number	Lab Sample Number	Date Collected	Matrix
QCEB-061912	**12-06-1318-17**	**06/19/12**	**Aqueous**

Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	06/19/12	EPA 314.0
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	06/19/12	EPA 7199

Method Blank					**N/A**	**Aqueous**		
Parameter	Results	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Perchlorate	ND	2.0	1		ug/L	N/A	06/19/12	EPA 314.0
Perchlorate	ND	20	1		ug/kg	06/19/12	06/19/12	EPA 314.0 (M)
Chromium, Hexavalent	ND	1.0	1		ug/L	N/A	06/19/12	EPA 7199

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RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	06/19/12
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-06-1327-2	**Aqueous**	**IC 14**	**N/A**	**06/19/12**	**120619S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	ND	50	49	98	49	99	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	06/19/12
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 314.0

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
QCEB-061912	**Aqueous**	**IC 8**	**N/A**	**06/19/12**	**120619S01**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	50	48	96	46	92	80-120	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC Environment & Infrastructure		Date Received:	06/19/12
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	Cartridge
Irvine, CA 92617-3094		Method:	EPA 314.0 (M)

Project Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
AC13-B9-6.0	**Solid**	**IC 8**	**06/19/12**	**06/19/12**	**120619S01A**

Parameter	SAMPLE CONC	SPIKE ADDED	MS CONC	MS %REC	MSD CONC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	500	510	102	500	100	80-120	2	0-15	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 7199

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-123-3,151	**Aqueous**	**IC 14**	**N/A**	**06/19/12**	**120619L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	50	52	104	52	103	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	N/A
Irvine, CA 92617-3094		Method:	EPA 314.0

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-203-1,496	**Aqueous**	**IC 8**	**N/A**	**06/19/12**	**120619L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	25	27	106	27	108	85-115	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC Environment & Infrastructure		Date Received:	N/A
121 Innovation Drive		Work Order No:	12-06-1318
Suite 200		Preparation:	Cartridge
Irvine, CA 92617-3094		Method:	EPA 314.0 (M)

Project: Crown City Plating Company / NB1016075A

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-205-685	**Solid**	**IC 8**	**06/19/12**	**06/19/12**	**120619L01**

Parameter	SPIKE ADDED	LCS CONC	LCS %REC	LCSD CONC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Perchlorate	250	240	97	250	101	85-115	4	0-15	

RPD - Relative Percent Difference , CL - Control Limit

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Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 12-06-1318

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
MPN - Most Probable Number

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CHAIN-OF-CUSTODY RECORD

NB33505

PROJECT NAME: Crown City Plating Company			DATE: 06-19-12 PAGE 1 OF 2
PROJECT NUMBER: NB1016075A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bande	LABORATORY ADDRESS:		12-06-1318
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Perchlorate (314.0)	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	06-19-12	852	AC13-B9-10.0		X	4oz jar	S			✓		1	
2		849	AC13-B9-6.0	X			S			✓		1	
3		857	AC13-B9-15.0		X		S			✓		1	
4		900	AC13-B9-20.0		X		S			✓		1	
5		938	AC13-B8-6.0	X			S			✓		1	
6		940	AC13-B8-10.0		X		S			✓		1	
7		944	AC13-B8-15.0		X		S			✓		1	
8		947	AC13-B8-20.0		X		S			✓		1	
9		1100	SW8a-0.5	X			S			✓		1	
10		1105	SW8a-2.0		X		S			✓		1	
11		1130	SW8b-0.5	X			S			✓		1	
12		1132	SW8b-2.0		X		S			✓		1	
13		1148	SW4b-0.5	X			S			✓		1	
14		1150	SW4b-2.0		X		S			✓		1	
15		1320 ~~1112~~ TN	SW4a-0.5	X			S			✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	06/19/12	1520	SIGNATURE: [signature] CZL	06/19/12	1520
PRINTED NAME: Thet Naing			PRINTED NAME: WEN-SITANG CHANG		
COMPANY: AMEC			COMPANY: CZL		
SIGNATURE: [signature] WZC 06/19/12			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 15

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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CHAIN-OF-CUSTODY RECORD NB33504

PROJECT NAME: Crown City Plating Company			DATE: 06-19-12 PAGE 2 OF 2
PROJECT NUMBER: NB1016075 A	LABORATORY NAME: Calscience	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Drop off at lab	LABORATORY CONTACT: Stephen Nowak		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

1318

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Perchlorate (314.0)	Hexavalent Chromium	Tag HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
16	06/19/12	1222	SW4a-2-0			X	4 oz jar	S		–	✓		1	
17	↓	1330	@CEB-061912	X	X		500 mL poly	W		–	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	06/19/12	1520	SIGNATURE: [signature]	06/19/12	1520
PRINTED NAME: Thet Naing			PRINTED NAME: WEN-SIHANG CHANG		
COMPANY: AMEC			COMPANY: CBC		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 3

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

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Calscience Environmental Laboratories, Inc.

WORK ORDER #: 12-06-1316

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Amec

DATE: 06/19/12

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.7 °C - 0.3 °C (CF) = 2.4 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter Initial: bdc

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Initial: WSC

☑ Sample ☐_____ ☐ No (Not Intact) ☐ Not Present Initial: PT

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☑4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☐VOA**h** ☐VOA**na$_2$** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na$_2$** ☐1AGB**s**

☐500AGB ☐500AGJ ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐1PB**na** ☐500PB

☑(2)#17 250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na$_2$** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Labeled/Checked by:** PT

Container: **C:** Clear **A:** Amber **P:** Plastic **G:** Glass **J:** Jar **B:** Bottle **Z:** Ziploc/Resealable Bag **E:** Envelope **Reviewed by:** WSC

Preservative: **h:** HCL **n:** HNO_3 **na$_2$:** $Na_2S_2O_3$ **na:** NaOH **p:** H_3PO_4 **s:** H_2SO_4 **u:** Ultra-pure **znna:** $ZnAc_2$+NaOH **f:** Filtered **Scanned by:** WS

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APPENDIX F

Moore Twining Associated, Inc.
Analytical Data Laboratory Reports

MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate #1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

March 21, 2012

Work Order #: 2C06003

Joseph Bahde
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 03/06/12 . For your reference, these analyses have been assigned laboratory work order number 2C06003.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Lisa Montijo
Client Services Assistant

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for the Following Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC01-B1-1.0	2C06003-01	Soil	03/01/12 09:40	03/06/12 09:40
AC01-B2-1.0	2C06003-02	Soil	03/01/12 09:55	03/06/12 09:40
AC01-B1-5.0	2C06003-03	Soil	03/01/12 10:30	03/06/12 09:40
AC01-B1-10.0	2C06003-04	Soil	03/01/12 10:35	03/06/12 09:40
AC01-B3-1.0	2C06003-07	Soil	03/01/12 12:35	03/06/12 09:40
AC01-B2-5.0	2C06003-08	Soil	03/01/12 12:45	03/06/12 09:40
AC01a-B1-5.0	2C06003-09	Soil	03/01/12 12:55	03/06/12 09:40
AC01-B2-10.0	2C06003-10	Soil	03/01/12 13:00	03/06/12 09:40
AC01-B4-1.0	2C06003-12	Soil	03/01/12 13:15	03/06/12 09:40
AC01-B3-5.0	2C06003-13	Soil	03/01/12 13:30	03/06/12 09:40
AC01-B3-10.0	2C06003-14	Soil	03/01/12 13:35	03/06/12 09:40
AC01a-B1-10.0	2C06003-15	Soil	03/01/12 13:40	03/06/12 09:40
AC01-B3-15.0	2C06003-16	Soil	03/01/12 13:45	03/06/12 09:40
AC01-B4-5.0	2C06003-17	Soil	03/01/12 14:40	03/06/12 09:40
AC01-B4-10.0	2C06003-18	Soil	03/01/12 14:45	03/06/12 09:40
QCEB-030112	2C06003-20	Water	03/01/12 15:00	03/06/12 09:40
AC05-B1-1.0	2C06003-21	Soil	03/02/12 07:55	03/06/12 09:40
AC05-B1-5.0	2C06003-22	Soil	03/02/12 08:35	03/06/12 09:40
AC05-B1-10.0	2C06003-23	Soil	03/02/12 08:40	03/06/12 09:40
AC05-B2-1.0	2C06003-26	Soil	03/02/12 09:10	03/06/12 09:40
AC05a-B1-1.0	2C06003-27	Soil	03/02/12 09:15	03/06/12 09:40
AC05-B2-5.0	2C06003-28	Soil	03/02/12 09:55	03/06/12 09:40
AC05-B2-10.0	2C06003-29	Soil	03/02/12 10:05	03/06/12 09:40
AC05-B3-1.0	2C06003-31	Soil	03/02/12 10:45	03/06/12 09:40
AC05-B3-5.0	2C06003-32	Soil	03/02/12 11:05	03/06/12 09:40
AC05-B3-10.0	2C06003-33	Soil	03/02/12 11:10	03/06/12 09:40
AC05-B4-1.0	2C06003-36	Soil	03/02/12 12:25	03/06/12 09:40
AC05-B4-5.0	2C06003-37	Soil	03/02/12 12:50	03/06/12 09:40
AC05-B4-10.0	2C06003-38	Soil	03/02/12 12:55	03/06/12 09:40
AC05-B5-1.0	2C06003-42	Soil	03/02/12 13:10	03/06/12 09:40
AC05-B5-5.0	2C06003-43	Soil	03/02/12 13:40	03/06/12 09:40
AC05-B5-10.0	2C06003-44	Soil	03/02/12 13:43	03/06/12 09:40
QCEB-030212	2C06003-47	Water	03/02/12 14:10	03/06/12 09:40
AC05-B6-1.0	2C06003-48	Soil	03/05/12 08:15	03/06/12 09:40
AC05-B6-5.0	2C06003-49	Soil	03/05/12 08:40	03/06/12 09:40
AC05-B6-10.0	2C06003-50	Soil	03/05/12 08:45	03/06/12 09:40
AC01-B5-1.0	2C06003-53	Soil	03/05/12 09:35	03/06/12 09:40
AC01-B5-5.0	2C06003-54	Soil	03/05/12 10:05	03/06/12 09:40

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for the Following Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC01-B5-10.0	2C06003-55	Soil	03/05/12 10:10	03/06/12 09:40
AC01-B6-1.0	2C06003-57	Soil	03/05/12 12:35	03/06/12 09:40
AC01-B6-5.0	2C06003-58	Soil	03/05/12 13:00	03/06/12 09:40
AC01-B6-10.0	2C06003-59	Soil	03/05/12 13:05	03/06/12 09:40
AC01a-B2-10.0	2C06003-60	Soil	03/05/12 13:10	03/06/12 09:40
AC13-B5-1.0	2C06003-62	Soil	03/05/12 13:45	03/06/12 09:40
AC13-B5-5.0	2C06003-63	Soil	03/05/12 13:50	03/06/12 09:40
AC13-B5-10.0	2C06003-64	Soil	03/05/12 14:05	03/06/12 09:40
AC13-B4-1.0	2C06003-65	Soil	03/05/12 14:10	03/06/12 09:40
AC13-B2-1.0	2C06003-66	Soil	03/05/12 14:25	03/06/12 09:40
AC13-B4-5.0	2C06003-67	Soil	03/05/12 14:35	03/06/12 09:40
AC13-B4-10.0	2C06003-68	Soil	03/05/12 14:40	03/06/12 09:40
AC13-B2-5.0	2C06003-69	Soil	03/05/12 14:50	03/06/12 09:40
AC13-B2-10.0	2C06003-70	Soil	03/05/12 14:55	03/06/12 09:40
QCEB-030512	2C06003-73	Water	03/05/12 15:30	03/06/12 09:40

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B1-1.0							Sampled: 03/01/12 09:40		**2C06003-01 (Soil)**
Hexavalent Chromium		**5.4**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**4.7**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**60**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.4**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**19**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**9.2**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**30**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**6.9**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**40**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**47**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.14**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B2-1.0							Sampled: 03/01/12 09:55		**2C06003-02 (Soil)**
Hexavalent Chromium		**5.5**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**4.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**69**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.6**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		**0.80**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**45**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**17**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**54**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**11**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**52**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**48**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**100**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.084**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B1-5.0							Sampled: 03/01/12 10:30		**2C06003-03 (Soil)**
Hexavalent Chromium		**5.8**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.8**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**3.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**50**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.4**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**17**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**8.9**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**26**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**4.6**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**12**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**41**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**44**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.067**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B1-10.0							Sampled: 03/01/12 10:35		**2C06003-04 (Soil)**
Hexavalent Chromium		**3.6**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**23**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.4**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**10**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**5.2**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**17**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**2.7**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**7.4**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**26**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**24**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.18**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B3-1.0							Sampled: 03/01/12 12:35		**2C06003-07 (Soil)**
Hexavalent Chromium		**4.3**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.1**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**4.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**68**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.7**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**25**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**9.6**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**38**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**7.4**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**15**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**44**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**55**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.082**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B2-5.0							Sampled: 03/01/12 12:45		**2C06003-08 (Soil)**
Hexavalent Chromium		**3.6**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**36**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.8**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**14**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**6.7**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**21**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**33**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**31**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**33**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.054**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01a-B1-5.0							Sampled: 03/01/12 12:55		**2C06003-09 (Soil)**
Hexavalent Chromium		**4.5**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.2**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**37**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.7**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**14**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**6.6**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**20**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.2**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**34**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**30**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**32**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.060**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B2-10.0							Sampled: 03/01/12 13:00		**2C06003-10 (Soil)**
Hexavalent Chromium		**2.6**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**3.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**29**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.5**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**11**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**5.6**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**18**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.9**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**6.9**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**25**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**26**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**1.4**	0.054	mg/kg	4	T2C0704	03/08/12	03/08/12	EPA 7471A

MOORE TWINING ASSOCIATES, INC.

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B4-1.0							Sampled: 03/01/12 13:15		**2C06003-12 (Soil)**
Hexavalent Chromium		**5.9**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**5.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**69**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.8**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		**0.41**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**29**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**12**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**40**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**9.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**17**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**48**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**57**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.087**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B3-5.0							Sampled: 03/01/12 13:30		**2C06003-13 (Soil)**
Hexavalent Chromium		**3.4**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.1**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**39**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.6**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**12**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**6.1**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**17**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.1**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**8.1**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**28**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**31**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.094**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B3-10.0							Sampled: 03/01/12 13:35		**2C06003-14 (Soil)**
Hexavalent Chromium		**2.7**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**20**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**0.91**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**7.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**3.1**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**11**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**2.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**4.8**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**16**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**16**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.066**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01a-B1-10.0							Sampled: 03/01/12 13:40		**2C06003-15 (Soil)**
Hexavalent Chromium		**2.5**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**28**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**0.99**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**6.8**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**3.5**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**13**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**2.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**7.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**21**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**17**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.12**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B3-15.0							Sampled: 03/01/12 13:45		**2C06003-16 (Soil)**
Hexavalent Chromium		**2.7**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**21**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**0.88**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**7.6**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**3.0**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**12**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**2.6**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**4.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**19**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**15**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.13**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B4-5.0							Sampled: 03/01/12 14:40		**2C06003-17 (Soil)**
Hexavalent Chromium		**3.3**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.3**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**38**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.8**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**13**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**7.0**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**19**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.5**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**9.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**33**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**33**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.045**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B4-10.0							Sampled: 03/01/12 14:45		**2C06003-18 (Soil)**
Hexavalent Chromium		**4.9**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**2.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**39**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**1.5**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**14**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**5.7**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**16**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**3.6**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**7.4**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**28**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**30**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.11**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
QCEB-030112							Sampled: 03/01/12 15:00		**2C06003-20 (Water)**
Antimony		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Barium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Beryllium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Chromium		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cobalt		ND	0.0020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Copper		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Lead		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Molybdenum		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Nickel		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Selenium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Silver		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Thallium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Vanadium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Zinc		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Mercury		ND	0.20	µg/L	1	T2C0703	03/07/12	03/07/12	EPA 7470A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B1-1.0							Sampled: 03/02/12 07:55		**2C06003-21 (Soil)**
Hexavalent Chromium		**3.7**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.0**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Arsenic		**4.4**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Barium		**62**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Beryllium		**2.7**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cadmium		**0.43**	0.40	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Chromium		**19**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Cobalt		**10**	0.80	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Copper		**34**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Lead		**5.4**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Nickel		**14**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Vanadium		**45**	2.5	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Zinc		**50**	2.0	mg/kg	1	T2C0710	03/07/12	03/09/12	EPA 6010B
Mercury		**0.30**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

MOORE TWINING ASSOCIATES, INC.

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B1-5.0							Sampled: 03/02/12 08:35		**2C06003-22 (Soil)**
Hexavalent Chromium		**4.4**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**2.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**47**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.3**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**16**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**8.3**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**29**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.1**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**40**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**40**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.056**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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121 Innovation, Suite 200
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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B1-10.0							Sampled: 03/02/12 08:40		**2C06003-23 (Soil)**
Hexavalent Chromium		**1.9**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**23**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**0.86**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**6.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**3.2**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**11**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**2.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**4.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**17**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**17**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.095**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B2-1.0							Sampled: 03/02/12 09:10		**2C06003-26 (Soil)**
Hexavalent Chromium		**5.9**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.6**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.8**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**67**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.9**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.53**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**26**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**10**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**36**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**23**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**49**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**54**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.12**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05a-B1-1.0							Sampled: 03/02/12 09:15		**2C06003-27 (Soil)**
Hexavalent Chromium		**6.7**	1.0	mg/kg	1	T2C1207	03/12/12	03/13/12	EPA 7196A
Antimony		**3.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**67**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.9**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.50**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**27**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**37**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.1**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**18**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**51**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**55**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.077**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B2-5.0							Sampled: 03/02/12 09:55		**2C06003-28 (Soil)**
Hexavalent Chromium		**5.2**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**63**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.9**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.59**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**22**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**37**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**16**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**52**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**57**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.20**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B2-10.0							Sampled: 03/02/12 10:05		**2C06003-29 (Soil)**
Hexavalent Chromium		**6.4**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.9**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**57**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.5**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**16**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**9.2**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**28**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**12**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**43**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**45**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.17**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B3-1.0							Sampled: 03/02/12 10:45		**2C06003-31 (Soil)**
Hexavalent Chromium		**6.1**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.9**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**77**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.0**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.71**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**25**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**13**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**41**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**18**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**55**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**62**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.075**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B3-5.0							Sampled: 03/02/12 11:05		**2C06003-32 (Soil)**
Hexavalent Chromium		**5.2**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**62**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.9**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.46**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**22**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**10**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**34**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**16**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**50**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**51**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.18**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B3-10.0							Sampled: 03/02/12 11:10		**2C06003-33 (Soil)**
Hexavalent Chromium		**6.5**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**48**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.3**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**16**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**8.6**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**27**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**40**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**43**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.16**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B4-1.0							Sampled: 03/02/12 12:25		**2C06003-36 (Soil)**
Hexavalent Chromium		**5.4**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.6**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**50**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.2**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**15**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**27**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.2**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**37**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**41**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.26**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B4-5.0							Sampled: 03/02/12 12:50		**2C06003-37 (Soil)**
Hexavalent Chromium		**5.8**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.6**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**74**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.1**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.75**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**25**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**12**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**42**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**18**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**56**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**61**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.093**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B4-10.0							Sampled: 03/02/12 12:55		**2C06003-38 (Soil)**
Hexavalent Chromium		**5.9**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.9**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**60**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.7**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.51**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**21**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**10**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**33**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**15**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**49**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**52**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.14**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B5-1.0							Sampled: 03/02/12 13:10		**2C06003-42 (Soil)**
Hexavalent Chromium		**17**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**2.2**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**49**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.2**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**1.0**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**100**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**14**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**1700**	10	mg/kg	5	T2C0811	03/08/12	03/13/12	EPA 6010B
Lead		**4.8**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**3000**	10	mg/kg	5	T2C0811	03/08/12	03/13/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**31**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**83**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.34**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B5-5.0							Sampled: 03/02/12 13:40		**2C06003-43 (Soil)**
Hexavalent Chromium		**38**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**4.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**74**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.1**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.49**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**72**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**38**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**5.8**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**17**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**47**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**56**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.080**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B5-10.0							Sampled: 03/02/12 13:43		**2C06003-44 (Soil)**
Hexavalent Chromium		**71**	1.0	mg/kg	1	T2C1914	03/19/12	03/19/12	EPA 7196A
Antimony		**4.2**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.9**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**69**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.1**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.42**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**89**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**36**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.2**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**17**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**53**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**58**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.093**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
QCEB-030212							Sampled: 03/02/12 14:10		**2C06003-47 (Water)**
Antimony		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Barium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Beryllium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Chromium		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cobalt		ND	0.0020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Copper		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Lead		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Molybdenum		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Nickel		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Selenium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Silver		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Thallium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Vanadium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Zinc		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Mercury		ND	0.20	µg/L	1	T2C0703	03/07/12	03/07/12	EPA 7470A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B6-1.0							Sampled: 03/05/12 08:15		**2C06003-48 (Soil)**
Hexavalent Chromium		**380**	8.0	mg/kg	8	T2C1914	03/19/12	03/19/12	EPA 7196A
Antimony		ND	4.0	mg/kg	2	T2C0811	03/08/12	03/13/12	EPA 6010B
Arsenic		**10**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**74**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.6**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**1.2**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**1100**	4.0	mg/kg	2	T2C0811	03/08/12	03/13/12	EPA 6010B
Cobalt		**18**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**150**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**390**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		**3.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**86**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**47**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**150**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.65**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B6-5.0							Sampled: 03/05/12 08:40		**2C06003-49 (Soil)**
Hexavalent Chromium		**6.1**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**71**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.0**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.67**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**25**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**12**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**42**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.6**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**19**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**56**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**59**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.000094**	0.000013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC05-B6-10.0							Sampled: 03/05/12 08:45		**2C06003-50 (Soil)**
Hexavalent Chromium		**6.1**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.8**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**4.5**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**75**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**3.1**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.49**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**24**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**38**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.3**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**18**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**54**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**60**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.067**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B5-1.0							Sampled: 03/05/12 09:35		**2C06003-53 (Soil)**
Hexavalent Chromium		**5.2**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**60**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.4**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		**0.41**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**21**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**9.9**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**31**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**6.8**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**13**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**44**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**50**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.27**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B5-5.0							Sampled: 03/05/12 10:05		**2C06003-54 (Soil)**
Hexavalent Chromium		**7.7**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.7**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Arsenic		**3.0**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Barium		**51**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Beryllium		**2.3**	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Chromium		**19**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Cobalt		**8.3**	0.80	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Copper		**25**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Lead		**4.4**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Nickel		**12**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Vanadium		**40**	2.5	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Zinc		**43**	2.0	mg/kg	1	T2C0811	03/08/12	03/09/12	EPA 6010B
Mercury		**0.058**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B5-10.0							Sampled: 03/05/12 10:10		**2C06003-55 (Soil)**
Hexavalent Chromium		**7.0**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.5**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Barium		**21**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Beryllium		**1.1**	0.40	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Chromium		**11**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Cobalt		**3.6**	0.80	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Copper		**13**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Lead		**2.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Nickel		**4.6**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Vanadium		**18**	2.5	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Zinc		**19**	2.0	mg/kg	1	T2C1213	03/12/12	03/13/12	EPA 6010B
Mercury		**0.11**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B6-1.0							Sampled: 03/05/12 12:35		**2C06003-57 (Soil)**
Hexavalent Chromium		**6.7**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**6.7**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**4.3**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**69**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.8**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**19**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**11**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**62**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**9.6**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**16**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**46**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**54**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.14**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B6-5.0							Sampled: 03/05/12 13:00		**2C06003-58 (Soil)**
Hexavalent Chromium		**3.3**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.3**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**2.1**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**32**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**1.4**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**10**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**5.5**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**15**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**2.6**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**7.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**25**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**25**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.14**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

MOORE TWINING ASSOCIATES, INC.

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01-B6-10.0							Sampled: 03/05/12 13:05		**2C06003-59 (Soil)**
Hexavalent Chromium		**3.4**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**19**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**0.72**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**4.7**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**2.3**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**10**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**2.0**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**3.0**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**12**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**13**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.13**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC01a-B2-10.0							Sampled: 03/05/12 13:10		**2C06003-60 (Soil)**
Hexavalent Chromium		**3.2**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**20**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**0.83**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**6.8**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**2.8**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**11**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**2.1**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**3.8**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**14**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**15**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.26**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B5-1.0							Sampled: 03/05/12 13:45		**2C06003-62 (Soil)**
Hexavalent Chromium		**13**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**5.3**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**3.2**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**53**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.3**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**18**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**8.5**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**26**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**4.5**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**38**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**41**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.63**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B5-5.0							Sampled: 03/05/12 13:50		**2C06003-63 (Soil)**
Hexavalent Chromium		**6.3**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**5.1**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**3.2**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**50**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.3**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**16**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**8.4**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**28**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**4.8**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**39**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**43**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.32**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B5-10.0							Sampled: 03/05/12 14:05		**2C06003-64 (Soil)**
Hexavalent Chromium		**77**	1.0	mg/kg	1	T2C1914	03/19/12	03/19/12	EPA 7196A
Antimony		**4.0**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**3.1**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**34**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.0**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**76**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**7.6**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**25**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**4.7**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**8.3**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**36**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**36**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.64**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B4-1.0							Sampled: 03/05/12 14:10		**2C06003-65 (Soil)**
Hexavalent Chromium		**4.8**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**32**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**1.4**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**13**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**5.3**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**16**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**2.6**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**7.2**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**25**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**26**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.065**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B2-1.0							Sampled: 03/05/12 14:25		**2C06003-66 (Soil)**
Hexavalent Chromium		**7.4**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**5.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**3.0**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**48**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.2**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**24**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**18**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**27**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**5.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**13**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**36**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**41**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.061**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

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Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B4-5.0							Sampled: 03/05/12 14:35		**2C06003-67 (Soil)**
Hexavalent Chromium		**6.1**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**5.4**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		**3.2**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**52**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**2.4**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**16**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**9.0**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**29**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**4.7**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**11**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**38**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**46**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.23**	0.013	mg/kg	1	T2C0704	03/08/12	03/08/12	EPA 7471A

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B4-10.0							Sampled: 03/05/12 14:40		**2C06003-68 (Soil)**
Hexavalent Chromium		**4.3**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.9**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Barium		**21**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Beryllium		**1.2**	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Chromium		**9.0**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Cobalt		**4.2**	0.80	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Copper		**15**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Lead		**2.8**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Nickel		**5.8**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Vanadium		**21**	2.5	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Zinc		**21**	2.0	mg/kg	1	T2C1213	03/12/12	03/14/12	EPA 6010B
Mercury		**0.22**	0.013	mg/kg	1	T2C0813	03/09/12	03/09/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B2-5.0							Sampled: 03/05/12 14:50		**2C06003-69 (Soil)**
Hexavalent Chromium		**2.7**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**2.0**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**21**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**0.87**	0.40	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**8.0**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**3.4**	0.80	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**11**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**5.5**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**17**	2.5	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**17**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.052**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
AC13-B2-10.0							Sampled: 03/05/12 14:55		**2C06003-70 (Soil)**
Hexavalent Chromium		**6.3**	1.0	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Antimony		**3.5**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic		**2.2**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**36**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**1.7**	0.40	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.40	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**12**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**5.5**	0.80	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**18**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**4.2**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Molybdenum		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**7.8**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium		ND	5.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver		ND	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		**8.7**	5.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**27**	2.5	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**31**	2.0	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.27**	0.013	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Analytical Report for Work Order 2C06003

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
QCEB-030512							Sampled: 03/05/12 15:30		**2C06003-73 (Water)**
Antimony		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Barium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Beryllium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.0010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Chromium		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cobalt		ND	0.0020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Copper		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Lead		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Molybdenum		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Nickel		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Selenium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Silver		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Thallium		ND	0.020	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Vanadium		ND	0.010	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Zinc		ND	0.0050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Mercury		ND	0.20	µg/L	1	T2C0703	03/07/12	03/07/12	EPA 7470A

Notes and Definitions

RPD3	The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
NH	QC Criteria out of range due to non-homogeneous sample matrix.
MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
MS1	Recovery for this analyte was affected by matrix.
ug/L	micrograms per liter (parts per billion concentration units)
mg/L	milligrams per liter (parts per million concentration units)
mg/kg	milligrams per kilogram (parts per million concentration units)
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
	Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field. If the test was performed in the laboratory, the hold time was exceeded.

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

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Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1207										
Blank (T2C1207-BLK1)					Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium		ND	1.0	mg/kg						
LCS (T2C1207-BS1)					Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium		9.99	1.0	mg/kg	10.0		99.9	80-120		20
LCS Dup (T2C1207-BSD1)					Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium		9.34	1.0	mg/kg	10.0		93.4	80-120	6.75	20
Matrix Spike (T2C1207-MS1)		**Source: 2C06003-01**			Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium	MS1	5.87	1.0	mg/kg	10.1	5.40	4.68	80-120		20
Matrix Spike (T2C1207-MS2)		**Source: 2C06003-14**			Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium	MS1	7.60	1.0	mg/kg	10.1	2.65	48.9	80-120		20
Matrix Spike Dup (T2C1207-MSD1)		**Source: 2C06003-01**			Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium	MS1	4.01	1.0	mg/kg	10.1	5.40	NR	80-120	37.7	20
Matrix Spike Dup (T2C1207-MSD2)		**Source: 2C06003-14**			Prepared: 03/12/12	Analyzed: 03/13/12				
Hexavalent Chromium	MS1	6.67	1.0	mg/kg	10.1	2.65	39.8	80-120	13.1	20
Batch T2C1305										
Blank (T2C1305-BLK1)					Prepared: 03/13/12	Analyzed: 03/14/12				
Hexavalent Chromium		ND	1.0	mg/kg						
Blank (T2C1305-BLK2)					Prepared: 03/13/12	Analyzed: 03/14/12				
Hexavalent Chromium		ND	1.0	mg/kg						

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Reported:
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Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1305										
LCS (T2C1305-BS1)					Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium		10.9	1.0	mg/kg	10.0		109	80-120		20
LCS (T2C1305-BS2)					Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium		11.4	1.0	mg/kg	10.0		114	80-120		20
LCS Dup (T2C1305-BSD1)					Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium		10.4	1.0	mg/kg	10.0		104	80-120	4.90	20
LCS Dup (T2C1305-BSD2)					Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium		10.9	1.0	mg/kg	10.0		109	80-120	4.68	20
Matrix Spike (T2C1305-MS1)		**Source: 2C06003-28**			Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium	MS3	8.26	1.0	mg/kg	9.96	5.25	30.3	80-120		20
Matrix Spike (T2C1305-MS3)		**Source: 2C06003-60**			Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium	MS3	2.96	1.0	mg/kg	10.0	3.23	NR	80-120		20
Matrix Spike Dup (T2C1305-MSD1)		**Source: 2C06003-28**			Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium	MS3	8.95	1.0	mg/kg	10.0	5.25	37.0	80-120	7.96	20
Matrix Spike Dup (T2C1305-MSD3)		**Source: 2C06003-60**			Prepared: 03/13/12 Analyzed: 03/14/12					
Hexavalent Chromium	MS3	4.63	1.0	mg/kg	9.97	3.23	14.0	80-120	44.0	20
Batch T2C1914										
Blank (T2C1914-BLK1)					Prepared & Analyzed: 03/19/12					
Hexavalent Chromium		ND	1.0	mg/kg						

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Inorganics - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1914										
LCS (T2C1914-BS1)					Prepared & Analyzed: 03/19/12					
Hexavalent Chromium		10.0	1.0	mg/kg	10.0		100	80-120		20
LCS Dup (T2C1914-BSD1)					Prepared & Analyzed: 03/19/12					
Hexavalent Chromium		10.3	1.0	mg/kg	10.0		103	80-120	2.63	20
Matrix Spike (T2C1914-MS1)		**Source: 2C06003-44**			Prepared & Analyzed: 03/19/12					
Hexavalent Chromium		88.2	1.0	mg/kg	20.8	70.5	85.3	80-120		20
Matrix Spike Dup (T2C1914-MSD1)		**Source: 2C06003-44**			Prepared & Analyzed: 03/19/12					
Hexavalent Chromium	MS3	84.4	1.0	mg/kg	20.5	70.5	67.9	80-120	4.36	20

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Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0703										
Blank (T2C0703-BLK1)					Prepared & Analyzed: 03/07/12					
Mercury		ND	0.20	µg/L						
LCS (T2C0703-BS1)					Prepared & Analyzed: 03/07/12					
Mercury		4.71	0.20	µg/L	5.00		94.3	80-120		20
LCS Dup (T2C0703-BSD1)					Prepared & Analyzed: 03/07/12					
Mercury		4.36	0.20	µg/L	5.00		87.2	80-120	7.83	20
Matrix Spike (T2C0703-MS1)		**Source: 2C06006-02**			Prepared & Analyzed: 03/07/12					
Mercury		4.82	0.20	µg/L	5.00	0.0923	94.5	70-130		20
Matrix Spike (T2C0703-MS2)		**Source: 2C06042-03**			Prepared & Analyzed: 03/07/12					
Mercury		4.84	0.20	µg/L	5.00	0.121	94.3	70-130		20
Matrix Spike Dup (T2C0703-MSD1)		**Source: 2C06006-02**			Prepared & Analyzed: 03/07/12					
Mercury		4.99	0.20	µg/L	5.00	0.0923	98.0	70-130	3.53	20
Matrix Spike Dup (T2C0703-MSD2)		**Source: 2C06042-03**			Prepared & Analyzed: 03/07/12					
Mercury		4.98	0.20	µg/L	5.00	0.121	97.2	70-130	2.95	20
Batch T2C0704										
Blank (T2C0704-BLK1)					Prepared & Analyzed: 03/08/12					
Mercury		ND	0.013	mg/kg						
LCS (T2C0704-BS1)					Prepared & Analyzed: 03/08/12					
Mercury		0.343	0.013	mg/kg	0.333		103	70-130		20

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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0704										
LCS Dup (T2C0704-BSD1)					Prepared & Analyzed: 03/08/12					
Mercury		0.330	0.013	mg/kg	0.333		99.0	70-130	3.76	20
Matrix Spike (T2C0704-MS1)		**Source: 2C06003-07**			Prepared & Analyzed: 03/08/12					
Mercury		0.462	0.013	mg/kg	0.335	0.0821	113	70-130		20
Matrix Spike (T2C0704-MS2)		**Source: 2C06003-08**			Prepared & Analyzed: 03/08/12					
Mercury		0.420	0.013	mg/kg	0.336	0.0539	109	70-130		20
Matrix Spike Dup (T2C0704-MSD1)		**Source: 2C06003-07**			Prepared & Analyzed: 03/08/12					
Mercury		0.479	0.013	mg/kg	0.335	0.0821	118	70-130	3.53	20
Matrix Spike Dup (T2C0704-MSD2)		**Source: 2C06003-08**			Prepared & Analyzed: 03/08/12					
Mercury		0.454	0.013	mg/kg	0.331	0.0539	121	70-130	7.88	20
Batch T2C0710										
Blank (T2C0710-BLK1)					Prepared: 03/07/12 Analyzed: 03/09/12					
Beryllium		ND	0.40	mg/kg						
Arsenic		ND	2.0	"						
Antimony		ND	2.0	"						
Cadmium		ND	0.40	"						
Chromium		ND	2.0	"						
Copper		ND	2.0	"						
Vanadium		ND	2.5	"						
Barium		ND	2.0	"						
Lead		ND	2.0	"						
Nickel		ND	2.0	"						
Molybdenum		ND	2.0	"						
Selenium		ND	5.0	"						
Zinc		ND	2.0	"						
Silver		ND	2.0	"						
Thallium		ND	5.0	"						
Cobalt		ND	0.80	"						

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate #1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0710										
LCS (T2C0710-BS1)					Prepared: 03/07/12 Analyzed: 03/09/12					
Barium		40.9	2.0	mg/kg	40.0		102	75-125		20
Chromium		20.6	2.0	"	20.0		103	75-125		20
Zinc		19.7	2.0	"	20.0		98.5	75-125		20
Thallium		77.6	5.0	"	80.0		97.1	75-125		20
Silver		20.5	2.0	"	20.0		103	75-125		20
Vanadium		41.0	2.5	"	40.0		102	75-125		20
Nickel		20.2	2.0	"	20.0		101	75-125		20
Antimony		20.0	2.0	"	20.0		99.8	75-125		20
Copper		21.4	2.0	"	20.0		107	75-125		20
Molybdenum		22.0	2.0	"	20.0		110	75-125		20
Cobalt		8.78	0.80	"	8.00		110	75-125		20
Selenium		74.8	5.0	"	80.0		93.5	75-125		20
Lead		21.9	2.0	"	20.0		110	70-130		20
Arsenic		39.9	2.0	"	40.0		99.9	75-125		20
Cadmium		3.89	0.40	"	4.00		97.3	75-125		20
Beryllium		3.96	0.40	"	4.00		99.0	75-125		20
LCS Dup (T2C0710-BSD1)					Prepared: 03/07/12 Analyzed: 03/09/12					
Nickel		19.8	2.0	mg/kg	20.0		99.0	75-125	1.94	20
Selenium		73.6	5.0	"	80.0		92.0	75-125	1.63	20
Molybdenum		21.9	2.0	"	20.0		109	75-125	0.445	20
Barium		40.9	2.0	"	40.0		102	75-125	0.00218	20
Arsenic		39.5	2.0	"	40.0		98.7	75-125	1.13	20
Cadmium		4.25	0.40	"	4.00		106	75-125	8.80	20
Antimony		19.6	2.0	"	20.0		98.2	75-125	1.55	20
Lead		21.6	2.0	"	20.0		108	70-130	1.43	20
Silver		20.3	2.0	"	20.0		101	75-125	1.13	20
Zinc		19.1	2.0	"	20.0		95.6	75-125	3.00	20
Vanadium		40.4	2.5	"	40.0		101	75-125	1.53	20
Cobalt		8.72	0.80	"	8.00		109	75-125	0.732	20
Thallium		76.9	5.0	"	80.0		96.1	75-125	0.988	20
Chromium		20.3	2.0	"	20.0		101	75-125	1.45	20
Copper		21.2	2.0	"	20.0		106	75-125	0.788	20
Beryllium		3.83	0.40	"	4.00		95.7	75-125	3.34	20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0710										
Matrix Spike (T2C0710-MS1)		**Source: 2B23034-02**		Prepared: 03/07/12 Analyzed: 03/09/12						
Thallium		74.2	5.0	mg/kg	80.2	ND	92.5	75-125		20
Nickel		23.6	2.0	"	20.1	3.72	98.9	75-125		20
Cadmium		4.18	0.40	"	4.01	0.313	96.4	75-125		20
Zinc	MS2	130	2.0	"	20.1	99.8	152	75-125		20
Lead		24.2	2.0	"	20.1	2.09	110	70-130		20
Selenium		75.9	5.0	"	80.2	2.30	91.8	75-125		20
Vanadium		44.3	2.5	"	40.1	3.04	103	75-125		20
Silver		25.4	2.0	"	20.1	0.950	122	75-125		20
Molybdenum		24.8	2.0	"	20.1	2.69	110	75-125		20
Barium		272	2.0	"	40.1	234	94.4	75-125		20
Chromium		24.9	2.0	"	20.1	4.51	102	75-125		20
Antimony		18.2	2.0	"	20.1	ND	90.9	75-125		20
Cobalt		9.69	0.80	"	8.02	0.791	111	75-125		20
Arsenic		52.2	2.0	"	40.1	11.4	102	75-125		20
Beryllium		3.60	0.40	"	4.01	0.0688	88.0	75-125		20
Copper	MS2	75.2	2.0	"	20.1	48.3	134	75-125		20
Matrix Spike (T2C0710-MS2)		**Source: 2C06003-10**		Prepared: 03/07/12 Analyzed: 03/09/12						
Vanadium		65.0	2.5	mg/kg	39.6	25.4	99.9	75-125		20
Thallium		69.4	5.0	"	79.2	ND	87.7	75-125		20
Copper	MS2	46.0	2.0	"	19.8	17.6	144	75-125		20
Silver		18.5	2.0	"	19.8	ND	93.4	75-125		20
Nickel		25.6	2.0	"	19.8	6.93	94.4	75-125		20
Molybdenum		19.7	2.0	"	19.8	0.162	98.5	75-125		20
Selenium		67.9	5.0	"	79.2	1.68	83.7	75-125		20
Lead		23.7	2.0	"	19.8	3.92	100	70-130		20
Zinc		45.3	2.0	"	19.8	25.9	97.9	75-125		20
Chromium		29.4	2.0	"	19.8	10.6	94.7	75-125		20
Antimony	MS3	8.49	2.0	"	19.8	1.78	33.9	75-125		20
Arsenic		38.4	2.0	"	39.6	3.03	89.4	75-125		20
Cadmium		3.71	0.40	"	3.96	0.169	89.5	75-125		20
Barium		62.9	2.0	"	39.6	29.1	85.5	75-125		20
Cobalt		13.8	0.80	"	7.92	5.64	103	75-125		20
Beryllium		4.83	0.40	"	3.96	1.50	84.1	75-125		20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0710										
Matrix Spike Dup (T2C0710-MSD1)		**Source: 2B23034-02**		Prepared: 03/07/12 Analyzed: 03/09/12						
Selenium		74.7	5.0	mg/kg	79.2	2.30	91.3	75-125	1.69	20
Zinc	MS2	135	2.0	"	19.8	99.8	176	75-125	3.30	20
Cobalt		9.38	0.80	"	7.92	0.791	108	75-125	3.27	20
Barium		265	2.0	"	39.6	234	76.6	75-125	2.79	20
Arsenic		50.5	2.0	"	39.6	11.4	98.9	75-125	3.31	20
Beryllium		3.64	0.40	"	3.96	0.0688	90.2	75-125	1.28	20
Thallium		73.1	5.0	"	79.2	ND	92.3	75-125	1.49	20
Antimony		18.1	2.0	"	19.8	ND	91.6	75-125	0.426	20
Chromium		24.2	2.0	"	19.8	4.51	99.4	75-125	3.02	20
Nickel		23.0	2.0	"	19.8	3.72	97.4	75-125	2.32	20
Copper		71.4	2.0	"	19.8	48.3	116	75-125	5.25	20
Vanadium		43.5	2.5	"	39.6	3.04	102	75-125	1.86	20
Cadmium		4.07	0.40	"	3.96	0.313	94.9	75-125	2.58	20
Silver		21.4	2.0	"	19.8	0.950	103	75-125	17.4	20
Molybdenum		23.9	2.0	"	19.8	2.69	107	75-125	3.66	20
Lead		23.5	2.0	"	19.8	2.09	108	70-130	3.26	20
Matrix Spike Dup (T2C0710-MSD2)		**Source: 2C06003-10**		Prepared: 03/07/12 Analyzed: 03/09/12						
Nickel		25.7	2.0	mg/kg	20.2	6.93	93.0	75-125	0.235	20
Zinc		44.4	2.0	"	20.2	25.9	91.7	75-125	1.95	20
Molybdenum		21.0	2.0	"	20.2	0.162	103	75-125	6.63	20
Arsenic		39.7	2.0	"	40.3	3.03	90.9	75-125	3.28	20
Beryllium		4.82	0.40	"	4.03	1.50	82.3	75-125	0.228	20
Selenium		71.5	5.0	"	80.7	1.68	86.5	75-125	5.10	20
Cadmium		3.84	0.40	"	4.03	0.169	91.0	75-125	3.44	20
Barium		68.9	2.0	"	40.3	29.1	98.7	75-125	9.12	20
Chromium		29.0	2.0	"	20.2	10.6	91.1	75-125	1.26	20
Silver		19.2	2.0	"	20.2	ND	95.4	75-125	3.99	20
Vanadium		63.0	2.5	"	40.3	25.4	93.2	75-125	3.02	20
Lead		24.6	2.0	"	20.2	3.92	102	70-130	3.48	20
Antimony	MS3	10.0	2.0	"	20.2	1.78	40.8	75-125	16.5	20
Cobalt		13.9	0.80	"	8.07	5.64	103	75-125	0.955	20
Thallium		73.1	5.0	"	80.7	ND	90.6	75-125	5.19	20
Copper	RPD3	37.0	2.0	"	20.2	17.6	96.5	75-125	21.7	20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0811										
Blank (T2C0811-BLK1)					Prepared: 03/08/12 Analyzed: 03/09/12					
Cadmium		ND	0.40	mg/kg						
Beryllium		ND	0.40	"						
Lead		ND	2.0	"						
Chromium		ND	2.0	"						
Selenium		ND	5.0	"						
Cobalt		ND	0.80	"						
Barium		ND	2.0	"						
Zinc		ND	2.0	"						
Copper		ND	2.0	"						
Nickel		ND	2.0	"						
Silver		ND	2.0	"						
Arsenic		ND	2.0	"						
Molybdenum		ND	2.0	"						
Antimony		ND	2.0	"						
Thallium		ND	5.0	"						
Vanadium		ND	2.5	"						
LCS (T2C0811-BS1)					Prepared: 03/08/12 Analyzed: 03/09/12					
Chromium		20.6	2.0	mg/kg	20.0		103	75-125		20
Barium		40.8	2.0	"	40.0		102	75-125		20
Cobalt		8.68	0.80	"	8.00		109	75-125		20
Lead		21.9	2.0	"	20.0		109	70-130		20
Selenium		74.8	5.0	"	80.0		93.5	75-125		20
Molybdenum		21.9	2.0	"	20.0		109	75-125		20
Copper		21.0	2.0	"	20.0		105	75-125		20
Thallium		77.9	5.0	"	80.0		97.3	75-125		20
Vanadium		40.6	2.5	"	40.0		102	75-125		20
Silver		20.5	2.0	"	20.0		103	75-125		20
Cadmium		4.36	0.40	"	4.00		109	75-125		20
Beryllium		3.73	0.40	"	4.00		93.2	75-125		20
Antimony		19.8	2.0	"	20.0		98.9	75-125		20
Arsenic		39.5	2.0	"	40.0		98.8	75-125		20
Nickel		20.3	2.0	"	20.0		101	75-125		20
Zinc		19.7	2.0	"	20.0		98.3	75-125		20

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0811										
LCS Dup (T2C0811-BSD1)					Prepared: 03/08/12 Analyzed: 03/09/12					
Silver		20.5	2.0	mg/kg	20.0		103	75-125	0.0557	20
Lead		22.3	2.0	"	20.0		111	70-130	1.71	20
Thallium		78.9	5.0	"	80.0		98.6	75-125	1.30	20
Copper		21.1	2.0	"	20.0		105	75-125	0.510	20
Selenium		75.9	5.0	"	80.0		94.9	75-125	1.47	20
Zinc		20.2	2.0	"	20.0		101	75-125	2.64	20
Molybdenum		22.1	2.0	"	20.0		111	75-125	1.10	20
Nickel		20.4	2.0	"	20.0		102	75-125	0.789	20
Vanadium		41.0	2.5	"	40.0		102	75-125	0.899	20
Chromium		20.6	2.0	"	20.0		103	75-125	0.0709	20
Arsenic		40.3	2.0	"	40.0		101	75-125	1.95	20
Barium		40.8	2.0	"	40.0		102	75-125	0.00802	20
Beryllium		3.85	0.40	"	4.00		96.1	75-125	3.12	20
Cobalt		8.83	0.80	"	8.00		110	75-125	1.63	20
Antimony		20.1	2.0	"	20.0		100	75-125	1.43	20
Cadmium		4.46	0.40	"	4.00		111	75-125	2.29	20
Matrix Spike (T2C0811-MS1)		**Source: 2C06003-22**			Prepared: 03/08/12 Analyzed: 03/09/12					
Zinc		62.9	2.0	mg/kg	20.1	40.4	112	75-125		20
Copper		48.4	2.0	"	20.1	28.6	99.0	75-125		20
Lead		23.9	2.0	"	20.1	5.13	93.4	70-130		20
Thallium		66.8	5.0	"	80.3	0.643	82.4	75-125		20
Selenium		65.1	5.0	"	80.3	2.22	78.3	75-125		20
Antimony	MS3	11.4	2.0	"	20.1	2.72	43.2	75-125		20
Cadmium		3.79	0.40	"	4.01	0.267	87.7	75-125		20
Beryllium		5.60	0.40	"	4.01	2.29	82.5	75-125		20
Arsenic		37.5	2.0	"	40.1	4.66	81.8	75-125		20
Vanadium		80.7	2.5	"	40.1	39.5	103	75-125		20
Molybdenum		19.1	2.0	"	20.1	0.291	93.5	75-125		20
Cobalt		16.2	0.80	"	8.03	8.30	98.2	75-125		20
Barium		94.9	2.0	"	40.1	47.3	119	75-125		20
Chromium		35.2	2.0	"	20.1	15.7	97.2	75-125		20
Silver		17.9	2.0	"	20.1	0.228	88.0	75-125		20
Nickel		29.9	2.0	"	20.1	11.2	93.1	75-125		20

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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0811										
Matrix Spike (T2C0811-MS2)		**Source: 2C06003-37**		Prepared: 03/08/12 Analyzed: 03/09/12						
Cadmium		4.15	0.40	mg/kg	4.03	0.748	84.3	75-125		20
Antimony	MS3	10.9	2.0	"	20.2	3.59	36.1	75-125		20
Thallium		63.0	5.0	"	80.6	ND	78.1	75-125		20
Silver		17.7	2.0	"	20.2	0.235	86.8	75-125		20
Molybdenum		18.3	2.0	"	20.2	0.300	89.2	75-125		20
Zinc		79.0	2.0	"	20.2	61.3	87.9	75-125		20
Barium		104	2.0	"	40.3	74.2	75.0	75-125		20
Vanadium		94.1	2.5	"	40.3	55.8	95.0	75-125		20
Copper		61.2	2.0	"	20.2	41.8	96.3	75-125		20
Arsenic		37.3	2.0	"	40.3	4.54	81.3	75-125		20
Chromium		41.9	2.0	"	20.2	25.0	83.9	75-125		20
Selenium		62.4	5.0	"	80.6	1.86	75.1	75-125		20
Nickel		34.2	2.0	"	20.2	18.4	78.4	75-125		20
Lead		24.7	2.0	"	20.2	6.48	90.3	70-130		20
Beryllium		6.11	0.40	"	4.03	3.07	75.5	75-125		20
Cobalt		19.1	0.80	"	8.06	11.9	89.9	75-125		20
Matrix Spike Dup (T2C0811-MSD1)		**Source: 2C06003-22**		Prepared: 03/08/12 Analyzed: 03/09/12						
Selenium		65.2	5.0	mg/kg	80.2	2.22	78.6	75-125	0.245	20
Silver		18.2	2.0	"	20.0	0.228	89.7	75-125	1.87	20
Vanadium		78.8	2.5	"	40.1	39.5	98.0	75-125	2.45	20
Zinc		60.4	2.0	"	20.0	40.4	99.7	75-125	4.13	20
Antimony	MS3	11.7	2.0	"	20.0	2.72	44.8	75-125	2.63	20
Nickel		29.1	2.0	"	20.0	11.2	89.5	75-125	2.58	20
Thallium		66.8	5.0	"	80.2	0.643	82.5	75-125	0.00437	20
Beryllium		5.36	0.40	"	4.01	2.29	76.8	75-125	4.24	20
Copper		47.9	2.0	"	20.0	28.6	96.6	75-125	1.03	20
Cadmium		3.88	0.40	"	4.01	0.267	90.2	75-125	2.48	20
Cobalt		16.1	0.80	"	8.02	8.30	97.7	75-125	0.318	20
Lead		23.6	2.0	"	20.0	5.13	91.9	70-130	1.35	20
Arsenic		37.2	2.0	"	40.1	4.66	81.3	75-125	0.677	20
Barium	MS3	76.7	2.0	"	40.1	47.3	73.4	75-125	21.3	20
Molybdenum		19.1	2.0	"	20.0	0.291	93.8	75-125	0.136	20
Chromium		34.7	2.0	"	20.0	15.7	94.8	75-125	1.44	20

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0811										
Matrix Spike Dup (T2C0811-MSD2)		**Source: 2C06003-37**			Prepared: 03/08/12 Analyzed: 03/09/12					
Barium	MS3	103	2.0	mg/kg	40.0	74.2	71.8	75-125	1.51	20
Beryllium	MS3	5.99	0.40	"	4.00	3.07	73.1	75-125	2.04	20
Chromium	MS3	39.3	2.0	"	20.0	25.0	71.9	75-125	6.30	20
Nickel	MS3	32.1	2.0	"	20.0	18.4	68.7	75-125	6.24	20
Cobalt		18.3	0.80	"	7.99	11.9	79.7	75-125	4.68	20
Antimony	MS3	10.6	2.0	"	20.0	3.59	35.0	75-125	2.56	20
Thallium		62.5	5.0	"	79.9	ND	78.1	75-125	0.797	20
Silver		17.2	2.0	"	20.0	0.235	85.0	75-125	2.96	20
Zinc	MS3	72.9	2.0	"	20.0	61.3	58.1	75-125	8.04	20
Copper		57.6	2.0	"	20.0	41.8	78.9	75-125	6.14	20
Vanadium		88.4	2.5	"	40.0	55.8	81.4	75-125	6.30	20
Arsenic		36.7	2.0	"	40.0	4.54	80.5	75-125	1.69	20
Selenium		62.5	5.0	"	79.9	1.86	75.9	75-125	0.191	20
Cadmium		3.88	0.40	"	4.00	0.748	78.3	75-125	6.70	20
Molybdenum		18.2	2.0	"	20.0	0.300	89.6	75-125	0.424	20
Lead		24.0	2.0	"	20.0	6.48	87.5	70-130	2.96	20
Batch T2C0813										
Blank (T2C0813-BLK1)					Prepared & Analyzed: 03/09/12					
Mercury		ND	0.013	mg/kg						
LCS (T2C0813-BS1)					Prepared & Analyzed: 03/09/12					
Mercury		0.323	0.013	mg/kg	0.333		97.0	70-130		20
LCS Dup (T2C0813-BSD1)					Prepared & Analyzed: 03/09/12					
Mercury		0.316	0.013	mg/kg	0.333		94.9	70-130	2.21	20

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0813										
Matrix Spike (T2C0813-MS1)		**Source: 2C06003-36**			Prepared & Analyzed: 03/09/12					
Mercury	NH	0.794	0.013	mg/kg	0.331	0.264	160	70-130		20
Matrix Spike (T2C0813-MS2)		**Source: 2C07024-01**			Prepared & Analyzed: 03/09/12					
Mercury	NH	1.88	0.013	mg/kg	0.335	0.161	512	70-130		20
Matrix Spike Dup (T2C0813-MSD1)		**Source: 2C06003-36**			Prepared & Analyzed: 03/09/12					
Mercury	RPD3	0.580	0.013	mg/kg	0.334	0.264	94.6	70-130	31.1	20
Matrix Spike Dup (T2C0813-MSD2)		**Source: 2C07024-01**			Prepared & Analyzed: 03/09/12					
Mercury	NH	0.342	0.013	mg/kg	0.332	0.161	54.6	70-130	138	20
Batch T2C0905										
Blank (T2C0905-BLK1)					Prepared & Analyzed: 03/13/12					
Mercury		ND	0.013	mg/kg						
LCS (T2C0905-BS1)					Prepared & Analyzed: 03/13/12					
Mercury		0.300	0.013	mg/kg	0.333		89.9	70-130		20
LCS Dup (T2C0905-BSD1)					Prepared & Analyzed: 03/13/12					
Mercury		0.309	0.013	mg/kg	0.333		92.8	70-130	3.20	20
Matrix Spike (T2C0905-MS1)		**Source: 2C06003-22**			Prepared & Analyzed: 03/13/12					
Mercury		0.400	0.013	mg/kg	0.333	0.0564	103	70-130		20
Matrix Spike (T2C0905-MS2)		**Source: 2C06003-29**			Prepared & Analyzed: 03/13/12					
Mercury		0.551	0.013	mg/kg	0.336	0.167	115	70-130		20

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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C0905										
Matrix Spike Dup (T2C0905-MSD1)		**Source: 2C06003-22**			Prepared & Analyzed: 03/13/12					
Mercury		0.431	0.013	mg/kg	0.335	0.0564	112	70-130	7.66	20
Matrix Spike Dup (T2C0905-MSD2)		**Source: 2C06003-29**			Prepared & Analyzed: 03/13/12					
Mercury		0.596	0.013	mg/kg	0.333	0.167	129	70-130	7.73	20
Batch T2C1213										
Blank (T2C1213-BLK1)					Prepared: 03/12/12 Analyzed: 03/13/12					
Chromium		ND	2.0	mg/kg						
Cadmium		ND	0.40	"						
Copper		ND	2.0	"						
Cobalt		ND	0.80	"						
Arsenic		ND	2.0	"						
Molybdenum		ND	2.0	"						
Nickel		ND	2.0	"						
Thallium		ND	5.0	"						
Beryllium		ND	0.40	"						
Zinc		ND	2.0	"						
Antimony		ND	2.0	"						
Vanadium		ND	2.5	"						
Silver		ND	2.0	"						
Selenium		ND	5.0	"						
Barium		ND	2.0	"						
Lead		ND	2.0	"						
LCS (T2C1213-BS1)					Prepared: 03/12/12 Analyzed: 03/13/12					
Cobalt		8.84	0.80	mg/kg	8.00		111	75-125		20
Selenium		73.4	5.0	"	80.0		91.8	75-125		20
Nickel		20.1	2.0	"	20.0		101	75-125		20
Molybdenum		21.7	2.0	"	20.0		109	75-125		20
Lead		21.3	2.0	"	20.0		106	70-130		20
Thallium		76.5	5.0	"	80.0		95.6	75-125		20
Zinc		19.6	2.0	"	20.0		97.9	75-125		20
Silver		20.3	2.0	"	20.0		101	75-125		20
Vanadium		40.9	2.5	"	40.0		102	75-125		20
Chromium		20.6	2.0	"	20.0		103	75-125		20
Beryllium		3.86	0.40	"	4.00		96.5	75-125		20
Antimony		20.1	2.0	"	20.0		100	75-125		20
Copper		21.7	2.0	"	20.0		108	75-125		20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1213										
LCS (T2C1213-BS1)					Prepared: 03/12/12 Analyzed: 03/13/12					
Arsenic		39.4	2.0	mg/kg	40.0		98.5	75-125		20
Barium		41.0	2.0	"	40.0		102	75-125		20
Cadmium		4.21	0.40	"	4.00		105	75-125		20
LCS Dup (T2C1213-BSD1)					Prepared: 03/12/12 Analyzed: 03/13/12					
Barium		40.9	2.0	mg/kg	40.0		102	75-125	0.106	20
Beryllium		3.88	0.40	"	4.00		97.0	75-125	0.548	20
Thallium		76.5	5.0	"	80.0		95.6	75-125	0.00230	20
Arsenic		39.1	2.0	"	40.0		97.9	75-125	0.632	20
Molybdenum		21.6	2.0	"	20.0		108	75-125	0.468	20
Vanadium		40.9	2.5	"	40.0		102	75-125	0.112	20
Zinc		19.4	2.0	"	20.0		96.8	75-125	1.21	20
Antimony		20.1	2.0	"	20.0		100	75-125	0.0406	20
Selenium		73.5	5.0	"	80.0		91.9	75-125	0.155	20
Silver		20.4	2.0	"	20.0		102	75-125	0.486	20
Cadmium		4.19	0.40	"	4.00		105	75-125	0.593	20
Lead		21.1	2.0	"	20.0		105	70-130	1.05	20
Copper		21.8	2.0	"	20.0		109	75-125	0.575	20
Chromium		20.5	2.0	"	20.0		103	75-125	0.352	20
Nickel		20.1	2.0	"	20.0		100	75-125	0.174	20
Cobalt		8.79	0.80	"	8.00		110	75-125	0.619	20
Matrix Spike (T2C1213-MS1)		**Source: 2C06003-55**			Prepared: 03/12/12 Analyzed: 03/13/12					
Zinc	MS2	44.0	2.0	mg/kg	19.9	19.0	126	75-125		20
Thallium		67.2	5.0	"	79.5	0.698	83.7	75-125		20
Silver		19.0	2.0	"	19.9	0.130	94.8	75-125		20
Selenium		69.4	5.0	"	79.5	1.24	85.8	75-125		20
Vanadium		55.2	2.5	"	39.7	18.0	93.5	75-125		20
Antimony	MS3	12.8	2.0	"	19.9	2.50	51.9	75-125		20
Arsenic		39.0	2.0	"	39.7	1.57	94.2	75-125		20
Lead		22.4	2.0	"	19.9	2.37	101	70-130		20
Molybdenum		19.1	2.0	"	19.9	ND	96.3	75-125		20
Copper		36.2	2.0	"	19.9	13.4	115	75-125		20
Chromium		28.5	2.0	"	19.9	11.0	88.1	75-125		20
Cadmium		3.45	0.40	"	3.97	ND	86.9	75-125		20
Beryllium		4.33	0.40	"	3.97	1.07	82.0	75-125		20
Nickel		21.6	2.0	"	19.9	4.61	85.6	75-125		20
Cobalt		12.5	0.80	"	7.95	3.56	113	75-125		20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1213										
Matrix Spike (T2C1213-MS1)		**Source: 2C06003-55**			Prepared: 03/12/12	Analyzed: 03/13/12				
Barium		56.5	2.0	mg/kg	39.7	21.3	88.8	75-125		20
Matrix Spike (T2C1213-MS2)		**Source: 2C06003-67**			Prepared: 03/12/12	Analyzed: 03/14/12				
Beryllium	MS3	5.39	0.40	mg/kg	3.97	2.44	74.4	75-125		20
Vanadium		71.0	2.5	"	39.7	38.2	82.6	75-125		20
Cobalt	MS3	14.8	0.80	"	7.93	8.96	73.3	75-125		20
Copper		47.2	2.0	"	19.8	29.0	91.8	75-125		20
Lead		22.2	2.0	"	19.8	4.75	87.8	70-130		20
Molybdenum		17.8	2.0	"	19.8	0.270	88.3	75-125		20
Antimony	MS3	10.6	2.0	"	19.8	5.44	25.9	75-125		20
Barium	MS3	78.7	2.0	"	39.7	52.2	66.8	75-125		20
Arsenic		37.4	2.0	"	39.7	3.24	86.3	75-125		20
Selenium		65.1	5.0	"	79.3	1.64	80.0	75-125		20
Silver		17.8	2.0	"	19.8	0.288	88.1	75-125		20
Thallium		64.1	5.0	"	79.3	2.44	77.7	75-125		20
Cadmium		3.26	0.40	"	3.97	ND	82.2	75-125		20
Chromium		32.5	2.0	"	19.8	16.2	82.1	75-125		20
Nickel		26.9	2.0	"	19.8	11.4	78.3	75-125		20
Zinc	MS3	59.4	2.0	"	19.8	46.2	66.6	75-125		20
Matrix Spike Dup (T2C1213-MSD1)		**Source: 2C06003-55**			Prepared: 03/12/12	Analyzed: 03/13/12				
Lead		22.5	2.0	mg/kg	20.0	2.37	101	70-130	0.342	20
Cadmium		3.67	0.40	"	4.00	ND	91.9	75-125	6.19	20
Cobalt		12.7	0.80	"	8.00	3.56	114	75-125	1.15	20
Selenium		71.8	5.0	"	80.0	1.24	88.3	75-125	3.42	20
Chromium		30.2	2.0	"	20.0	11.0	96.0	75-125	5.74	20
Beryllium		4.40	0.40	"	4.00	1.07	83.2	75-125	1.60	20
Barium		56.8	2.0	"	40.0	21.3	88.8	75-125	0.432	20
Vanadium		58.2	2.5	"	40.0	18.0	101	75-125	5.36	20
Zinc		39.5	2.0	"	20.0	19.0	102	75-125	10.7	20
Silver		19.3	2.0	"	20.0	0.130	95.7	75-125	1.61	20
Thallium		71.8	5.0	"	80.0	0.698	88.9	75-125	6.59	20
Nickel		23.4	2.0	"	20.0	4.61	94.2	75-125	8.09	20
Molybdenum		20.2	2.0	"	20.0	ND	101	75-125	5.32	20
Arsenic		39.4	2.0	"	40.0	1.57	94.7	75-125	1.16	20
Antimony	MS3	13.1	2.0	"	20.0	2.50	53.2	75-125	2.62	20
Copper		35.8	2.0	"	20.0	13.4	112	75-125	1.20	20

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Juliane Adams, Director of Analytical Chemistry

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1213										
Matrix Spike Dup (T2C1213-MSD2)		**Source: 2C06003-67**			Prepared: 03/12/12 Analyzed: 03/14/12					
Zinc		63.2	2.0	mg/kg	20.2	46.2	84.2	75-125	6.20	20
Cobalt		17.1	0.80	"	8.08	8.96	101	75-125	14.6	20
Lead		23.2	2.0	"	20.2	4.75	91.3	70-130	4.54	20
Thallium		66.6	5.0	"	80.8	2.44	79.4	75-125	3.75	20
Copper		49.2	2.0	"	20.2	29.0	100	75-125	4.29	20
Arsenic		38.8	2.0	"	40.4	3.24	88.1	75-125	3.63	20
Vanadium		74.7	2.5	"	40.4	38.2	90.3	75-125	5.06	20
Barium	MS3	81.1	2.0	"	40.4	52.2	71.5	75-125	3.01	20
Beryllium	MS3	5.46	0.40	"	4.04	2.44	74.8	75-125	1.29	20
Molybdenum		18.6	2.0	"	20.2	0.270	90.8	75-125	4.57	20
Cadmium		3.43	0.40	"	4.04	ND	85.0	75-125	5.22	20
Silver		18.4	2.0	"	20.2	0.288	89.7	75-125	3.55	20
Selenium		67.5	5.0	"	80.8	1.64	81.5	75-125	3.55	20
Antimony	MS3	11.3	2.0	"	20.2	5.44	28.8	75-125	6.35	20
Nickel		28.3	2.0	"	20.2	11.4	83.5	75-125	4.85	20
Chromium		34.0	2.0	"	20.2	16.2	88.0	75-125	4.44	20
Batch T2C1303										
Blank (T2C1303-BLK1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Copper		ND	2.0	mg/kg						
Molybdenum		ND	2.0	"						
Zinc		ND	2.0	"						
Silver		ND	2.0	"						
Vanadium		ND	2.5	"						
Lead		ND	2.0	"						
Nickel		ND	2.0	"						
Chromium		ND	2.0	"						
Antimony		ND	2.0	"						
Selenium		ND	5.0	"						
Beryllium		ND	0.40	"						
Arsenic		ND	2.0	"						
Barium		ND	2.0	"						
Thallium		ND	5.0	"						
Cobalt		ND	0.80	"						
Cadmium		ND	0.40	"						

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1303										
LCS (T2C1303-BS1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Silver		20.3	2.0	mg/kg	20.0		102	75-125		20
Vanadium		40.9	2.5	"	40.0		102	75-125		20
Nickel		20.3	2.0	"	20.0		101	75-125		20
Copper		21.4	2.0	"	20.0		107	75-125		20
Thallium		79.3	5.0	"	80.0		99.1	75-125		20
Zinc		19.9	2.0	"	20.0		99.6	75-125		20
Selenium		75.6	5.0	"	80.0		94.6	75-125		20
Chromium		20.5	2.0	"	20.0		103	75-125		20
Antimony		20.3	2.0	"	20.0		102	75-125		20
Molybdenum		22.0	2.0	"	20.0		110	75-125		20
Lead		21.7	2.0	"	20.0		109	70-130		20
Cadmium		4.30	0.40	"	4.00		107	75-125		20
Cobalt		8.87	0.80	"	8.00		111	75-125		20
Arsenic		40.6	2.0	"	40.0		101	75-125		20
Beryllium		4.12	0.40	"	4.00		103	75-125		20
Barium		40.6	2.0	"	40.0		102	75-125		20
LCS Dup (T2C1303-BSD1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Nickel		20.0	2.0	mg/kg	20.0		100	75-125	1.11	20
Silver		20.3	2.0	"	20.0		102	75-125	0.194	20
Chromium		20.3	2.0	"	20.0		102	75-125	0.907	20
Molybdenum		22.0	2.0	"	20.0		110	75-125	0.394	20
Beryllium		4.20	0.40	"	4.00		105	75-125	1.90	20
Vanadium		40.5	2.5	"	40.0		101	75-125	0.978	20
Cadmium		4.26	0.40	"	4.00		107	75-125	0.856	20
Antimony		20.3	2.0	"	20.0		102	75-125	0.104	20
Arsenic		40.3	2.0	"	40.0		101	75-125	0.528	20
Thallium		78.8	5.0	"	80.0		98.6	75-125	0.577	20
Zinc		19.6	2.0	"	20.0		98.1	75-125	1.58	20
Cobalt		8.89	0.80	"	8.00		111	75-125	0.253	20
Copper		21.3	2.0	"	20.0		107	75-125	0.176	20
Barium		40.8	2.0	"	40.0		102	75-125	0.477	20
Selenium		75.3	5.0	"	80.0		94.1	75-125	0.485	20
Lead		21.8	2.0	"	20.0		109	70-130	0.643	20

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate #1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1303										
Matrix Spike (T2C1303-MS1)		**Source: 2C06003-69**			Prepared: 03/13/12	Analyzed: 03/15/12				
Zinc		34.8	2.0	mg/kg	20.0	17.4	87.2	75-125		20
Barium		54.0	2.0	"	40.0	20.6	83.3	75-125		20
Nickel		23.1	2.0	"	20.0	5.47	88.0	75-125		20
Antimony	MS3	15.3	2.0	"	20.0	2.01	66.2	75-125		20
Selenium		70.1	5.0	"	80.0	1.13	86.2	75-125		20
Arsenic		39.0	2.0	"	40.0	1.46	93.9	75-125		20
Cobalt		11.4	0.80	"	8.00	3.44	99.8	75-125		20
Beryllium		4.65	0.40	"	4.00	0.874	94.5	75-125		20
Vanadium		54.2	2.5	"	40.0	17.0	93.0	75-125		20
Cadmium		3.66	0.40	"	4.00	ND	91.4	75-125		20
Silver		19.1	2.0	"	20.0	0.108	94.9	75-125		20
Thallium		77.2	5.0	"	80.0	4.57	90.7	75-125		20
Molybdenum		20.2	2.0	"	20.0	ND	101	75-125		20
Lead		21.9	2.0	"	20.0	1.87	100	70-130		20
Chromium		25.5	2.0	"	20.0	8.04	87.0	75-125		20
Copper		30.4	2.0	"	20.0	10.7	98.5	75-125		20
Matrix Spike (T2C1303-MS2)		**Source: 2C07012-10**			Prepared: 03/13/12	Analyzed: 03/16/12				
Barium		70.0	2.0	mg/kg	40.0	37.2	82.0	75-125		20
Selenium		67.8	5.0	"	80.0	0.379	84.3	75-125		20
Nickel		27.2	2.0	"	20.0	10.1	85.4	75-125		20
Lead		23.3	2.0	"	20.0	3.59	98.5	70-130		20
Antimony	MS3	12.4	2.0	"	20.0	3.89	42.5	75-125		20
Copper		38.8	2.0	"	20.0	19.8	95.1	75-125		20
Cobalt		15.0	0.80	"	8.00	7.18	97.8	75-125		20
Beryllium		5.24	0.40	"	4.00	1.75	87.4	75-125		20
Zinc		50.2	2.0	"	20.0	31.5	93.3	75-125		20
Arsenic		38.1	2.0	"	40.0	1.90	90.6	75-125		20
Molybdenum		19.7	2.0	"	20.0	ND	98.7	75-125		20
Thallium		81.0	5.0	"	80.0	9.31	89.6	75-125		20
Vanadium		69.7	2.5	"	40.0	29.5	101	75-125		20
Chromium		32.4	2.0	"	20.0	16.2	81.2	75-125		20
Silver		18.4	2.0	"	20.0	0.141	91.2	75-125		20
Cadmium		3.60	0.40	"	4.00	0.0233	89.5	75-125		20

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1303										
Matrix Spike Dup (T2C1303-MSD1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Cobalt		11.4	0.80	mg/kg	8.00	3.44	100	75-125	0.195	20
Nickel		23.4	2.0	"	20.0	5.47	89.8	75-125	1.54	20
Beryllium		4.55	0.40	"	4.00	0.874	92.0	75-125	2.20	20
Arsenic		39.1	2.0	"	40.0	1.46	94.2	75-125	0.342	20
Lead		22.3	2.0	"	20.0	1.87	102	70-130	1.72	20
Antimony	MS3	15.5	2.0	"	20.0	2.01	67.3	75-125	1.36	20
Silver		19.2	2.0	"	20.0	0.108	95.6	75-125	0.690	20
Thallium		78.9	5.0	"	80.0	4.57	92.9	75-125	2.20	20
Selenium		71.3	5.0	"	80.0	1.13	87.7	75-125	1.66	20
Molybdenum		20.4	2.0	"	20.0	ND	102	75-125	1.25	20
Chromium		25.7	2.0	"	20.0	8.04	88.1	75-125	0.812	20
Cadmium		3.69	0.40	"	4.00	ND	92.3	75-125	0.926	20
Copper		30.4	2.0	"	20.0	10.7	98.5	75-125	0.00928	20
Vanadium		54.5	2.5	"	40.0	17.0	93.7	75-125	0.530	20
Zinc		34.1	2.0	"	20.0	17.4	83.7	75-125	1.98	20
Barium		57.2	2.0	"	40.0	20.6	91.4	75-125	5.83	20
Matrix Spike Dup (T2C1303-MSD2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Arsenic		38.9	2.0	mg/kg	40.0	1.90	92.6	75-125	2.08	20
Cadmium		3.53	0.40	"	4.00	0.0233	87.6	75-125	2.07	20
Beryllium		5.51	0.40	"	4.00	1.75	94.1	75-125	4.98	20
Antimony	MS3	14.0	2.0	"	20.0	3.89	50.7	75-125	12.5	20
Chromium		31.2	2.0	"	20.0	16.2	75.2	75-125	3.76	20
Barium		67.4	2.0	"	40.0	37.2	75.4	75-125	3.79	20
Silver		18.4	2.0	"	20.0	0.141	91.3	75-125	0.156	20
Vanadium		66.7	2.5	"	40.0	29.5	93.2	75-125	4.32	20
Cobalt		14.3	0.80	"	8.00	7.18	88.7	75-125	4.98	20
Zinc		47.3	2.0	"	20.0	31.5	79.1	75-125	5.82	20
Copper		39.0	2.0	"	20.0	19.8	96.2	75-125	0.518	20
Thallium		83.1	5.0	"	80.0	9.31	92.2	75-125	2.56	20
Selenium		69.0	5.0	"	80.0	0.379	85.8	75-125	1.76	20
Lead		23.6	2.0	"	20.0	3.59	100	70-130	1.23	20
Nickel		26.5	2.0	"	20.0	10.1	82.0	75-125	2.46	20
Molybdenum		20.0	2.0	"	20.0	ND	100	75-125	1.56	20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1309										
Blank (T2C1309-BLK1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Silver		ND	0.0050	mg/L						
Selenium		ND	0.020	"						
Vanadium		ND	0.010	"						
Beryllium		ND	0.0010	"						
Cadmium		ND	0.0010	"						
Molybdenum		ND	0.0050	"						
Nickel		ND	0.0050	"						
Copper		ND	0.0050	"						
Lead		ND	0.0050	"						
Thallium		ND	0.020	"						
Arsenic		ND	0.010	"						
Antimony		ND	0.0050	"						
Cobalt		ND	0.0020	"						
Chromium		ND	0.0050	"						
Barium		ND	0.010	"						
Zinc		ND	0.0050	"						
LCS (T2C1309-BS1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Zinc		0.108	0.0050	mg/L	0.100		108	75-125		20
Selenium		0.380	0.020	"	0.400		95.0	75-125		20
Arsenic		0.202	0.010	"	0.200		101	75-125		20
Nickel		0.111	0.0050	"	0.100		111	75-125		20
Silver		0.101	0.0050	"	0.100		101	75-125		20
Beryllium		0.0208	0.0010	"	0.0200		104	75-125		20
Vanadium		0.200	0.010	"	0.200		100	75-125		20
Thallium		0.393	0.020	"	0.400		98.3	75-125		20
Cobalt		0.0435	0.0020	"	0.0400		109	75-125		20
Cadmium		0.0214	0.0010	"	0.0200		107	75-125		20
Barium		0.203	0.010	"	0.200		102	75-125		20
Molybdenum		0.106	0.0050	"	0.100		106	75-125		20
Copper		0.103	0.0050	"	0.100		103	75-125		20
Lead		0.108	0.0050	"	0.100		108	75-125		20
Antimony		0.101	0.0050	"	0.100		101	75-125		20
Chromium		0.109	0.0050	"	0.100		109	75-125		20

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Project Number: [none]
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Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1309										
LCS Dup (T2C1309-BSD1)					Prepared: 03/13/12 Analyzed: 03/15/12					
Copper		0.102	0.0050	mg/L	0.100		102	75-125	1.10	20
Lead		0.106	0.0050	"	0.100		106	75-125	1.59	20
Thallium		0.393	0.020	"	0.400		98.4	75-125	0.0979	20
Silver		0.100	0.0050	"	0.100		100	75-125	0.988	20
Selenium		0.373	0.020	"	0.400		93.3	75-125	1.81	20
Barium		0.202	0.010	"	0.200		101	75-125	0.485	20
Nickel		0.110	0.0050	"	0.100		110	75-125	1.15	20
Molybdenum		0.107	0.0050	"	0.100		107	75-125	0.373	20
Cadmium		0.0211	0.0010	"	0.0200		105	75-125	1.40	20
Cobalt		0.0438	0.0020	"	0.0400		109	75-125	0.633	20
Antimony		0.0974	0.0050	"	0.100		97.4	75-125	3.31	20
Zinc		0.107	0.0050	"	0.100		107	75-125	1.04	20
Chromium		0.107	0.0050	"	0.100		107	75-125	1.24	20
Arsenic		0.199	0.010	"	0.200		99.4	75-125	1.31	20
Beryllium		0.0208	0.0010	"	0.0200		104	75-125	0.378	20
Vanadium		0.200	0.010	"	0.200		100	75-125	0.102	20
Matrix Spike (T2C1309-MS1)		**Source: 2C06005-01**			Prepared: 03/13/12 Analyzed: 03/15/12					
Silver		0.503	0.025	mg/L	0.500	0.00607	99.4	75-125		20
Selenium		1.90	0.10	"	2.00	ND	95.1	75-125		20
Molybdenum		0.548	0.025	"	0.500	0.0117	107	75-125		20
Vanadium		1.04	0.050	"	1.00	0.0219	102	75-125		20
Zinc		1.37	0.025	"	0.500	0.939	86.7	75-125		20
Thallium	MS3	0.198	0.10	"	2.00	ND	9.89	75-125		20
Cadmium		0.108	0.0050	"	0.100	0.00134	107	75-125		20
Copper		1.32	0.025	"	0.500	0.848	94.2	75-125		20
Cobalt		0.215	0.010	"	0.200	0.00327	106	75-125		20
Lead		0.541	0.025	"	0.500	ND	108	75-125		20
Barium	MS3	2.73	0.050	"	1.00	2.07	65.4	75-125		20
Antimony		0.487	0.025	"	0.500	ND	97.4	75-125		20
Chromium		0.556	0.025	"	0.500	0.00708	110	75-125		20
Arsenic		1.01	0.050	"	1.00	ND	101	75-125		20
Nickel		0.569	0.025	"	0.500	0.0160	111	75-125		20
Beryllium		0.106	0.0050	"	0.100	ND	106	75-125		20

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Project: Crown City Plating Company
Project Number: [none]
Project Manager: Joseph Bahde

Reported:
03/21/2012

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch T2C1309										
Matrix Spike Dup (T2C1309-MSD1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Lead		0.541	0.025	mg/L	0.500	ND	108	75-125	0.0962	20
Nickel		0.565	0.025	"	0.500	0.0160	110	75-125	0.683	20
Vanadium		1.03	0.050	"	1.00	0.0219	101	75-125	0.682	20
Barium	MS3	2.67	0.050	"	1.00	2.07	59.8	75-125	2.07	20
Cobalt		0.216	0.010	"	0.200	0.00327	106	75-125	0.0894	20
Beryllium		0.103	0.0050	"	0.100	ND	103	75-125	2.73	20
Selenium		1.90	0.10	"	2.00	ND	94.8	75-125	0.307	20
Cadmium		0.107	0.0050	"	0.100	0.00134	106	75-125	1.09	20
Thallium	MS3	0.220	0.10	"	2.00	ND	11.0	75-125	10.7	20
Copper		1.29	0.025	"	0.500	0.848	88.5	75-125	2.18	20
Antimony		0.501	0.025	"	0.500	ND	100	75-125	2.89	20
Molybdenum		0.544	0.025	"	0.500	0.0117	107	75-125	0.732	20
Zinc		1.37	0.025	"	0.500	0.939	85.7	75-125	0.360	20
Chromium		0.549	0.025	"	0.500	0.00708	108	75-125	1.31	20
Arsenic		1.02	0.050	"	1.00	ND	102	75-125	0.646	20
Silver		0.497	0.025	"	0.500	0.00607	98.2	75-125	1.21	20

CHAIN-OF-CUSTODY RECORD

2C06003

NB33769

PROJECT NAME: Crown City Plating Company		DATE: 03/01/2012	PAGE 1 OF 5
PROJECT NUMBER: NB101607SIA	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Brande	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: FedEx	LABORATORY CONTACT: Julio Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *			Hexavalent Chromium				HOLD							CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	03/01/12	940	AC01-B1-1.0		X			X										4 oz jars	S		–	✓		2	
2		955	AC01-B2-1.0		X			X										4 oz jars	S		–	✓		2	
3		1030	AC01-B1-5.0		X			X										acetate liner	S		–	✓		1	
4		1035	AC01-B1-10.0		X			X											S		–	✓		1	
5		1045	AC01-B1-15.0		~~X~~	TN		~~X~~	TN		X								S		–	✓		1	
6		1050	AC01-B1-18.5								X								S		–	✓		1	
7		1235	AC01-B3-1.0		X			X										4 oz jars	S		–	✓		2	
8		1245	AC01-B2-5.0		X			X											S		–	✓		2	
9		1255	AC01a-B1-5.0		X			X										TN ~~Acetate liner~~ 4 oz jar	S		–	✓		2	
10		1300	AC01-B2-10.0		X			X										Acetate liner	S		–	✓		1	
11		1310	AC01-B2-15.0		~~X~~	TN		~~X~~	TN		X								S		–	✓		1	
12		1315	AC01-~~B3~~ B4-1.0		X			X										4 oz jar	S		–	✓		2	
13		1330	AC01-B3-5.0		X			X										acetate liner	S		–	✓		1	
14		1335	AC01-B3-10.0		X			X										4 oz jar	S		–	✓		2	
15		1340	AC01a-B1-10.0		X			X											S		–	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/06/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MTA		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS:

* CAM 17

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Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

CHAIN-OF-CUSTODY RECORD

2C06 ~~005~~ 003

NB33771

PROJECT NAME: Crown City Plating Company			DATE: 03/01/2012 PAGE 2 OF 5
PROJECT NUMBER: NB1016075A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julie Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
16	03/01/12	1345	AC01-B3-15.0	X	X		Acetate Liner	S		–	✓		1	
17	↓	1440	AC01-B4-5.0	X	X		↓	S		–	✓		1	
18	↓	1445	AC01-B4-10.0	X	X		↓	S		–	✓		1	
19	↓	1450	AC01-B4-15.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	
20	↓	1500	QCEB-030112	X			125mL HDPE	W		HNO_3	✓		1	
21	03/02/12	0755	AC05-B1-1.0	X	X		4oz jar	S		–	✓		2	
22	↓	0835	AC05-B1-5.0	X	X		Acetate Liner	S		–	✓		1	
23	↓	0840	AC05-B1-10.0	X	X		↓	S		–	✓		1	
24	↓	0845	AC05-B1-15.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	
25	↓	0850	AC05-B1-19.5			X	↓	S		–	✓		1	
26	↓	0910	AC05-B2-1.0	X	X		4oz jar	S		–	✓		2	
27	↓	0915	AC05a-B1-1.0	X	X		↓	S		–	✓		2	
28	↓	0955	AC05-B2-5.0	X	X		Acetate Liner	S		–	✓		1	
29	↓	1005	AC05-B2-10.0	X	X		↓	S		–	✓		1	
30	↓	1010	AC05-B2-14.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/02/12	0940	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: AMEC		

TOTAL NUMBER OF CONTAINERS: 18

SAMPLING COMMENTS:

* See page 1

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CHAIN-OF-CUSTODY RECORD

ZC006 ~~005~~ 005

NB33772

PROJECT NAME: Crown City Plating Company

DATE: 03/02/2012 PAGE 3 OF 5

PROJECT NUMBER: NB1016075 A

LABORATORY NAME: Moore Twining

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

RESULTS TO: Joseph Bahde

LABORATORY ADDRESS:

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: FedEx

LABORATORY CONTACT: Julie Morales

LABORATORY PHONE NUMBER:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent	Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
31	03/02/12	1045	AC05-B3-1.0	X	X			4 oz jar	S		–	✓		2	
32	↓	1105	AC05-B3-5.0	X	X			Acetate liner	S		–	✓		1	
33		1110	AC05-B3-10.0	X	X			↓	S		–	✓		1	
34		1115	AC05-B3-15.0	~~X~~ TN	~~X~~ TN		X		S		–	✓		1	
35		1120	AC05-B3-20.0				X	↓	S		–	✓		1	
36		1225	AC05-B4-1.0	X	X			4 oz jar	S		–	✓		2	
37		1250	AC05-B4-5.0	X	X			Acetate liner	S		–	✓		1	
38		1255	AC05-B4-10.0	X	X			↓	S		–	✓		1	
39		1300	AC05a-B1-15.0	~~X~~ TN	~~X~~ TN		X	4 oz jar	S		–	✓		2	
40		1305	AC05-B4-15.0	~~X~~ TN	~~X~~ TN		X	↓	S		–	✓		2	
41		1305	AC05-B4-20.0	~~X~~ TN			X	Acetate liner	S		–	✓		1	
42		1310	AC05-B5-1.0	X	X			4 oz jar	S		–	✓		2	
43		1340	AC05-B5-5.0	X	X			acetate liner	S		–	✓		1	
44		1343	AC05-B5-10.0	X	X			↓	S		–	✓		1	
45	↓	1345	AC05-B5-15.0	~~X~~ TN	~~X~~ TN		X	↓	S		–	✓		1	

TOTAL NUMBER OF CONTAINERS: 20

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	18:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/02/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MOS		

SAMPLING COMMENTS:

* See page 1

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CHAIN-OF-CUSTODY RECORD

2C06 ~~0026~~ 003

NB33773

PROJECT NAME: Crown City Plating Company			DATE: 03/02/2012 — PAGE 4 OF 5
PROJECT NUMBER: NB101607SA	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julie Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
46	03/02/12	1345	AC05-B5-20.0			X	acetate liner	S		—	✓		1	
47	↓	1410	QCEB-030212	X			125mL HDPE	W		HNO_3	✓		1	
48	03/05/12	815	AC05-B6-1.0	X	X		4oz jar	S		—	✓		2	
49		840	AC05-B6-5.0	X	X		Acetate liner	S		—	✓		1	
50		845	AC05-B6-10.0	X	X		↓	S		—	✓		1	
51		850	AC05-B6-15.0			X	↓	S		—	✓		1	
52		855	AC05-B6-20.0			X	↓	S		—	✓		1	
53		935	AC01-B5-1.0	X	X		4oz jar	S		—	✓		2	
54		1005	AC01-B5-5.0	X	X		Acetate liner	S		—	✓		1	
55		1010	AC01-B5-10.0	X	X		↓	S		—	✓		1	
56		105	AC01-B5-15.0			X	↓	S		—	✓		1	
57		1235	AC01-B6-1.0	X	X		4oz jar	S		—	✓		2	
58		1300	AC01-B6-5.0	X	X		Acetate liner	S		—	✓		1	
59		1305	AC01-B6-10.0	X	X		4oz jar	S		—	✓		2	
60	↓	1310	AC01a-B2-10.0	X	X		↓	S		—	✓		2	

TOTAL NUMBER OF CONTAINERS: 20

SAMPLING COMMENTS:

* See page 1

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	18:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/06/12	0940	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MW		

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CHAIN-OF-CUSTODY RECORD

2C06 ~~007~~ 003

NB33775

PROJECT NAME: Crown City Plating Company		DATE: 03/05/2012	PAGE 5 OF 5
PROJECT NUMBER: NB1016075A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julie Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
61	03/05/12	1315	AC01-B6-15.0			X	Acetate liner	S		–	✓		1	
62		1345	AC13-B5-1.0	X	X		4 oz jar	S		–	✓		2	
63		1350	AC13-B5-5.0	X	X			S		–	✓		2	
64		1405	AC13-B5-10.0	X	X			S		–	✓		2	
65		1410	AC13-B4-1.0	X	X			S		–	✓		2	
66		1425	AC13-B2-1.0	X	X			S		–	✓		2	
67		1435	AC13-B4-5.0	X	X			S		–	✓		2	
68		1440	AC13-B4-10.0	X	X			S		–	✓		2	
69		1450	AC13-B2-5.0	X	X		Acetate liner	S		–	✓		1	
70		1455	AC13-B2-10.0	X	X			S		–	✓		1	
71		1510	AC13-B2-15.0	~~X~~ TN	~~X~~ TN	X		S		–	✓		1	
72		1515	AC13-B2-20.0			X		S		–	✓		1	
73		1530	QCEB-030512	X			125 mL HDPE	W		HNO_3	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	18:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/04/12	0940	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MTA		

TOTAL NUMBER OF CONTAINERS: 20

SAMPLING COMMENTS:

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2C06003

Sample Integrity Pg 6 of 14

Date Received: 03/06/12

Section 1-Sampled Same Day
Sample Transport: Walk in MTA Courier Transported In: Ice Chest Box Hand
Has Chilling Begun? Y N

Section 2-Sampled Previously
Sample Transport: CAO UPS Walk-In MTA Courier GSO Fed Ex Other: _____
No. Coolers/Ice Chests: 2 Temperature(s):
Was Temperature In Range: Y or N Received On Ice: Wet Blue
Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: n/a
Were ice chest custody seals present? Y or N Intact: Y or N

Section 3-COC Info.	Completed Yes	Completed No	Info From Container			Completed Yes	Completed No
Was COC Received	✓				Analysis Requested	✓	
Date Sampled	✓				Any hold times less than 72hr		✓
Time Sampled	✓				Client Name	✓	
Sample ID	✓				Address	✓	
Special Storage/Handling Ins.		✓			Telephone #	✓	

Section4-Bottles/Analysis	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?:	✓			
Were bottle custody seals present?			✓	
Were bottle custody seals intact?			✓	
Did all bottle labels agree with COC?:	✓			
Were correct containers used for the tests requested?:	✓			
Was a sufficient amount of sample sent for tests indicated?:	✓			
Were bubbles present in VOA Vials?: (Volatiles Methods Only)			✓	
Were Ascorbic Acid Bottles received with the VOAs			✓	

Section 5-Comments/Discrepancies

Sample(s) Split/Preserve: Yes No Container: _____ Preservation: _____ Init: _____

Was Client Service Supervisor notified of discrepancies: Yes No N/A Notified by: _____

Explanations/Comments

Report Comment Entered:

Labeled by: _____ Checked by: _____

2C06003

Sample Integrity Pg 7 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	1	2	3	4	5	6	7	8	9	10
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL	2	2					2	2	2	
Plastic Bag										
Soil Tube			1	1	1	1				1
Tedlar Bags										

FL-SC-0003-01 b

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Sample Integrity Pg 8 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	11	12	13	14	15	16	17	18	19	20
Bacti 100mL Thiosulfate										
None Plastic										1A
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL		2		2	2					
Plastic Bag										
Soil Tube	1		1			1	1	1	1	
Tedlar Bags										

FL-SC-0003-01 b

2C06003

Sample Integrity Pg 9 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	21	22	23	24	25	26	27	28	29	30
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL	2					2	2			
Plastic Bag										
Soil Tube		1	1	1	1			1	1	1
Tedlar Bags										

FL-SC-0003-01 b

2C06003

Sample Integrity Pg 10 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	31	32	33	34	35	36	37	38	39	40
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL	2					2			2	2
Plastic Bag										
Soil Tube		1	1	1	1		1	1		
Tedlar Bags										

FL-SC-0003-01 b

BC06 003

Sample Integrity Pg 11 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	41	42	43	44	45	46	47	48	49	50
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic							1A			
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL		2					2			
Plastic Bag										
Soil Tube	1		1	1	1	1		1	1	1
Tedlar Bags										

FL-SC-0003-01 b

2C 06 003

Sample Integrity Pg 12 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	51	52	53	54	55	56	57	58	59	60
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL			2				2		2	2
Plastic Bag										
Soil Tube	1	1		1	1	1		1		
Tedlar Bags										

FL-SC-0003-01 b

2C06003

Sample Integrity Pg 13 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	61	62	63	64	65	66	67	68	69	70
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic										
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL		2	2	2	2	2	2	2		
Plastic Bag										
Soil Tube	1								1	1
Tedlar Bags										

FL-SC-0003-01 b

Sample Integrity Pg 14 of 14

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	71	72	73							
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic			1A							
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL										
Plastic Bag										
Soil Tube	1	1								
Tedlar Bags										

FL-SC-0003-01 b

MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

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May 04, 2012

Work Order #: 2C07012

Joseph Bahde
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 03/07/12 . For your reference, these analyses have been assigned laboratory work order number 2C07012.

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Julio Morales
Client Services Supervisor

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC13-B3-1.0	2C07012-01	Soil	03/06/12 08:40	03/07/12 10:20
AC13a-B1-1.0	2C07012-02	Soil	03/06/12 08:45	03/07/12 10:20
AC13-B3-5.0	2C07012-03	Soil	03/06/12 08:50	03/07/12 10:20
AC13-B1-1.0	2C07012-04	Soil	03/06/12 09:00	03/07/12 10:20
AC13-B3-10.0	2C07012-05	Soil	03/06/12 09:40	03/07/12 10:20
AC13-B6-1.0	2C07012-06	Soil	03/06/12 11:00	03/07/12 10:20
AC13-B6-5.0	2C07012-07	Soil	03/06/12 12:10	03/07/12 10:20
AC13-B6-10.0	2C07012-08	Soil	03/06/12 12:20	03/07/12 10:20
AC13-B7-1.0	2C07012-10	Soil	03/06/12 12:30	03/07/12 10:20
AC13-B7-5.0	2C07012-11	Soil	03/06/12 13:00	03/07/12 10:20
AC13a-B1-5.0	2C07012-12	Soil	03/06/12 13:05	03/07/12 10:20
AC13-B7-10.0	2C07012-13	Soil	03/06/12 13:10	03/07/12 10:20
AC13-B1-5.0	2C07012-14	Soil	03/06/12 13:45	03/07/12 10:20
AC13-B1-10.0	2C07012-15	Soil	03/06/12 14:00	03/07/12 10:20
QCEB-030612	2C07012-16	Water	03/06/12 14:00	03/07/12 10:20

AMENDED REPORT:

Thallium was originally reported incorrectly. Results are now reported to include the correct Thallium values. JCM 5/4/12

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B3-1.0

2C07012-01 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**1400**	4.0	0.080	mg/kg	4	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		ND	4.0	0.21	mg/kg	2	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**16**	4.0	0.43	mg/kg	2	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**51**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**1.6**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	**J**	**0.23**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**3500**	10	0.39	mg/kg	5	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**23**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**82**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**12**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.44**	0.013	0.0034	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**44**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.88**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.50**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**28**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**72**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13a-B1-1.0

2C07012-02 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**1300**	4.0	0.080	mg/kg	4	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		ND	4.0	0.21	mg/kg	2	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**12**	4.0	0.43	mg/kg	2	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**46**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**1.4**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	**J**	**0.24**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**2800**	20	0.78	mg/kg	10	T2C1303	03/13/12	03/17/12	EPA 6010B
Cobalt		**16**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**74**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**9.8**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.13**	0.013	0.0034	mg/kg	1	T2C0905	03/13/12	03/13/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**45**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.82**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.68**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**24**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**69**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B3-5.0

2C07012-03 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**1200**	8.0	0.16	mg/kg	8	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		ND	4.0	0.21	mg/kg	2	T2C1303	03/13/12	03/17/12	EPA 6010B
Arsenic		**8.5**	4.0	0.43	mg/kg	2	T2C1303	03/13/12	03/17/12	EPA 6010B
Barium		**45**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**1.5**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**1600**	4.0	0.16	mg/kg	2	T2C1303	03/13/12	03/17/12	EPA 6010B
Cobalt		**4.9**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**17**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**7.2**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.24**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.32**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**8.0**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**1.1**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.14**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**25**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**39**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B1-1.0

2C07012-04 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**110**	4.0	0.080	mg/kg	4	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		**6.2**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic		**4.2**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**72**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**3.0**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	**J**	**0.12**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**180**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**39**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**6.1**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.083**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**21**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.33**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**50**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**57**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B3-10.0

2C07012-05 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.2**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony	**J**	**1.3**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic	**J**	**1.9**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**22**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**0.92**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**130**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**3.1**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**12**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**2.6**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.097**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.24**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**4.0**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.73**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**15**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**18**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B6-1.0

2C07012-06 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**9.2**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony		**6.2**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic		**3.3**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**62**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**2.6**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	**J**	**0.084**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**29**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**30**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**6.5**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.16**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.16**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**19**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**1.1**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.42**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**44**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**49**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B6-5.0

2C07012-07 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**6.9**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony		**5.2**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic		**2.8**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**49**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**2.2**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	**J**	**0.070**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**15**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**8.0**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**25**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**4.5**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.27**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.17**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**10**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.87**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver	**J**	**0.24**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**38**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**42**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B6-10.0

2C07012-08 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.1**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony		**2.3**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Arsenic	J	**1.9**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Barium		**20**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Beryllium		**1.0**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cadmium	J	**0.034**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Chromium		**9.2**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Cobalt		**4.3**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Copper		**13**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Lead		**2.5**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Mercury		**0.14**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Nickel		**5.6**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Selenium	J	**1.0**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Vanadium		**20**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B
Zinc		**21**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/15/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B7-1.0

2C07012-10 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**6.0**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony		**3.9**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic	J	**1.9**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**37**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**1.7**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	J	**0.023**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**16**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**7.2**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**20**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**3.6**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.064**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**10**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	J	**0.38**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	J	**0.14**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**29**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**32**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B7-5.0

2C07012-11 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**7.1**	1.0	0.020	mg/kg	1	T2C1305	03/13/12	03/14/12	EPA 7196A
Metals - Totals										
Antimony		**4.7**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**2.3**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**39**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**2.1**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	**J**	**0.055**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**13**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**7.4**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**27**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**4.3**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.42**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**9.3**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	**J**	**1.0**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	**J**	**0.22**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**34**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**38**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13a-B1-5.0

2C07012-12 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.2**	1.0	0.020	mg/kg	1	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		**4.6**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**2.2**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**39**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**2.0**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	**J**	**0.035**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**13**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**7.0**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**24**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**4.0**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.14**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.13**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**8.7**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	**J**	**0.91**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	**J**	**0.23**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**32**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**37**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B7-10.0

2C07012-13 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**1.6**	1.0	0.020	mg/kg	1	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		**2.1**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic	J	**1.6**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**22**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**1.1**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	J	**0.038**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**7.2**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**3.6**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**12**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**2.4**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.29**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**5.1**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	J	**0.87**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**19**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**19**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B1-5.0

2C07012-14 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**92**	2.0	0.040	mg/kg	2	T2C1914	03/19/12	03/19/12	EPA 7196A
Metals - Totals										
Antimony		**5.0**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**3.4**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**47**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**2.4**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	**J**	**0.083**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**120**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**8.5**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**32**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**4.8**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.091**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**11**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	**J**	**1.4**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	**J**	**0.23**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**42**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**47**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

AC13-B1-10.0

2C07012-15 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**180**	10	0.20	mg/kg	10	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**2.0**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**2.9**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**32**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**1.7**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	**J**	**0.068**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**250**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**5.7**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**17**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**3.9**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.34**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**7.8**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	**J**	**0.83**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	**J**	**0.17**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**28**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**31**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

QCEB-030612

2C07012-16 (Water)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Antimony		ND	0.0050	0.0015	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	0.010	0.0022	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Barium		ND	0.010	0.00078	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Beryllium		ND	0.0010	0.000072	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.0010	0.00018	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Chromium		ND	0.0050	0.00065	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cobalt		ND	0.0020	0.00037	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Copper	**J**	**0.0027**	0.0050	0.00060	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Lead		ND	0.0050	0.00078	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Mercury		ND	0.20	0.062	µg/L	1	T2C0914	03/12/12	03/12/12	EPA 7470A
Molybdenum	**J**	**0.00054**	0.0050	0.00050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Nickel	**J**	**0.00072**	0.0050	0.00072	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.0031**	0.020	0.0025	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Silver		ND	0.0050	0.00066	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Thallium		ND	0.020	0.0043	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Vanadium	**J**	**0.00023**	0.010	0.00012	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Zinc		**0.0061**	0.0050	0.00058	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B

Notes and Definitions

RPD3	The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
MS1	Recovery for this analyte was affected by matrix.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
BS2	Recovery for this analyte was biased low. Results were accepted based on duplicate results.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

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Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1305										
Blank (T2C1305-BLK1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	ND	1.0	mg/kg							
Blank (T2C1305-BLK2)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2C1305-BS1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	10.9	1.0	mg/kg	10.0		109	80-120		20	
LCS (T2C1305-BS2)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	11.4	1.0	mg/kg	10.0		114	80-120		20	
LCS Dup (T2C1305-BSD1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	10.4	1.0	mg/kg	10.0		104	80-120	4.90	20	
LCS Dup (T2C1305-BSD2)				Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	10.9	1.0	mg/kg	10.0		109	80-120	4.68	20	
Matrix Spike (T2C1305-MS1)		**Source: 2C06003-28**		Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	8.26	1.0	mg/kg	9.96	5.25	30.3	80-120		20	MS3
Matrix Spike (T2C1305-MS3)		**Source: 2C06003-60**		Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	2.96	1.0	mg/kg	10.0	3.23	NR	80-120		20	MS3
Matrix Spike Dup (T2C1305-MSD1)		**Source: 2C06003-28**		Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	8.95	1.0	mg/kg	10.0	5.25	37.0	80-120	7.96	20	MS3
Matrix Spike Dup (T2C1305-MSD3)		**Source: 2C06003-60**		Prepared: 03/13/12 Analyzed: 03/14/12						
Hexavalent Chromium	4.63	1.0	mg/kg	9.97	3.23	14.0	80-120	44.0	20	MS3
Batch T2C1914										
Blank (T2C1914-BLK1)				Prepared & Analyzed: 03/19/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2C1914-BS1)				Prepared & Analyzed: 03/19/12						
Hexavalent Chromium	10.0	1.0	mg/kg	10.0		100	80-120		20	
LCS Dup (T2C1914-BSD1)				Prepared & Analyzed: 03/19/12						
Hexavalent Chromium	10.3	1.0	mg/kg	10.0		103	80-120	2.63	20	
Matrix Spike (T2C1914-MS1)		**Source: 2C06003-44**		Prepared & Analyzed: 03/19/12						
Hexavalent Chromium	88.2	1.0	mg/kg	20.8	70.5	85.3	80-120		20	
Matrix Spike Dup (T2C1914-MSD1)		**Source: 2C06003-44**		Prepared & Analyzed: 03/19/12						
Hexavalent Chromium	84.4	1.0	mg/kg	20.5	70.5	67.9	80-120	4.36	20	MS3
Batch T2C2008										

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Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C2008										
Blank (T2C2008-BLK1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2C2008-BS1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	9.90	1.0	mg/kg	10.0		99.0	80-120		20	
LCS Dup (T2C2008-BSD1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	9.77	1.0	mg/kg	10.0		97.7	80-120	1.36	20	
Matrix Spike (T2C2008-MS1)		**Source: 2C07012-15**		Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	229	10	mg/kg	9.73	177	534	80-120		20	MS2
Matrix Spike Dup (T2C2008-MSD1)		**Source: 2C07012-15**		Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	212	10	mg/kg	9.17	177	382	80-120	7.66	20	MS2

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C0905										
Blank (T2C0905-BLK1)				Prepared & Analyzed: 03/13/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C0905-BS1)				Prepared & Analyzed: 03/13/12						
Mercury	0.300	0.013	mg/kg	0.333		89.9	70-130		20	
LCS Dup (T2C0905-BSD1)				Prepared & Analyzed: 03/13/12						
Mercury	0.309	0.013	mg/kg	0.333		92.8	70-130	3.20	20	
Matrix Spike (T2C0905-MS1)		**Source: 2C06003-22**		Prepared & Analyzed: 03/13/12						
Mercury	0.400	0.013	mg/kg	0.333	0.0564	103	70-130		20	
Matrix Spike (T2C0905-MS2)		**Source: 2C06003-29**		Prepared & Analyzed: 03/13/12						
Mercury	0.551	0.013	mg/kg	0.336	0.167	115	70-130		20	
Matrix Spike Dup (T2C0905-MSD1)		**Source: 2C06003-22**		Prepared & Analyzed: 03/13/12						
Mercury	0.431	0.013	mg/kg	0.335	0.0564	112	70-130	7.66	20	
Matrix Spike Dup (T2C0905-MSD2)		**Source: 2C06003-29**		Prepared & Analyzed: 03/13/12						
Mercury	0.596	0.013	mg/kg	0.333	0.167	129	70-130	7.73	20	
Batch T2C0914										
Blank (T2C0914-BLK1)				Prepared & Analyzed: 03/12/12						
Mercury	0.0628	0.20	µg/L							J
LCS (T2C0914-BS1)				Prepared & Analyzed: 03/12/12						
Mercury	3.29	0.20	µg/L	5.00		65.8	80-120		20	BS2
LCS Dup (T2C0914-BSD1)				Prepared & Analyzed: 03/12/12						
Mercury	4.51	0.20	µg/L	5.00		90.2	80-120	31.2	20	RPD3
Matrix Spike (T2C0914-MS1)		**Source: 2C08013-02**		Prepared & Analyzed: 03/12/12						
Mercury	20.3	1.2	µg/L	30.0	ND	67.8	70-130		20	MS1
Matrix Spike (T2C0914-MS2)		**Source: 2C08013-04**		Prepared & Analyzed: 03/12/12						
Mercury	17.8	1.2	µg/L	30.0	1.23	55.2	70-130		20	MS1
Matrix Spike Dup (T2C0914-MSD1)		**Source: 2C08013-02**		Prepared & Analyzed: 03/12/12						
Mercury	20.7	1.2	µg/L	30.0	ND	69.0	70-130	1.73	20	MS1
Matrix Spike Dup (T2C0914-MSD2)		**Source: 2C08013-04**		Prepared & Analyzed: 03/12/12						
Mercury	14.4	1.2	µg/L	30.0	1.23	44.0	70-130	20.7	20	MS1
Batch T2C1303										
Blank (T2C1303-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	ND	2.0	mg/kg							

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
Blank (T2C1303-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Copper	0.0828	2.0	mg/kg							J
Silver	ND	2.0	mg/kg							
Antimony	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Zinc	0.101	2.0	mg/kg							J
Thallium	ND	5.0	mg/kg							
Selenium	0.467	5.0	mg/kg							J
Vanadium	ND	2.5	mg/kg							
Cadmium	ND	0.40	mg/kg							
Chromium	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Barium	ND	2.0	mg/kg							
Beryllium	ND	0.40	mg/kg							
LCS (T2C1303-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Lead	21.7	2.0	mg/kg	20.0		109	70-130		20	
Selenium	75.6	5.0	mg/kg	80.0		94.6	75-125		20	
Nickel	20.3	2.0	mg/kg	20.0		101	75-125		20	
Silver	20.3	2.0	mg/kg	20.0		102	75-125		20	
Molybdenum	22.0	2.0	mg/kg	20.0		110	75-125		20	
Barium	40.6	2.0	mg/kg	40.0		102	75-125		20	
Chromium	20.5	2.0	mg/kg	20.0		103	75-125		20	
Vanadium	40.9	2.5	mg/kg	40.0		102	75-125		20	
Cadmium	4.30	0.40	mg/kg	4.00		107	75-125		20	
Beryllium	4.12	0.40	mg/kg	4.00		103	75-125		20	
Zinc	19.9	2.0	mg/kg	20.0		99.6	75-125		20	
Thallium	72.9	5.0	mg/kg	80.0		91.1	75-125		20	
Arsenic	40.6	2.0	mg/kg	40.0		101	75-125		20	
Antimony	20.3	2.0	mg/kg	20.0		102	75-125		20	
Cobalt	8.87	0.80	mg/kg	8.00		111	75-125		20	
Copper	21.4	2.0	mg/kg	20.0		107	75-125		20	
LCS Dup (T2C1303-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	40.3	2.0	mg/kg	40.0		101	75-125	0.528	20	
Lead	21.8	2.0	mg/kg	20.0		109	70-130	0.643	20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
LCS Dup (T2C1303-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Cobalt	8.89	0.80	mg/kg	8.00		111	75-125	0.253	20	
Antimony	20.3	2.0	mg/kg	20.0		102	75-125	0.104	20	
Cadmium	4.26	0.40	mg/kg	4.00		107	75-125	0.856	20	
Beryllium	4.20	0.40	mg/kg	4.00		105	75-125	1.90	20	
Copper	21.3	2.0	mg/kg	20.0		107	75-125	0.176	20	
Molybdenum	22.0	2.0	mg/kg	20.0		110	75-125	0.394	20	
Chromium	20.3	2.0	mg/kg	20.0		102	75-125	0.907	20	
Barium	40.8	2.0	mg/kg	40.0		102	75-125	0.477	20	
Vanadium	40.5	2.5	mg/kg	40.0		101	75-125	0.978	20	
Selenium	75.3	5.0	mg/kg	80.0		94.1	75-125	0.485	20	
Nickel	20.0	2.0	mg/kg	20.0		100	75-125	1.11	20	
Zinc	19.6	2.0	mg/kg	20.0		98.1	75-125	1.58	20	
Silver	20.3	2.0	mg/kg	20.0		102	75-125	0.194	20	
Thallium	72.6	5.0	mg/kg	80.0		90.8	75-125	0.350	20	
Matrix Spike (T2C1303-MS1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Lead	21.9	2.0	mg/kg	20.0	1.87	100	70-130		20	
Copper	30.4	2.0	mg/kg	20.0	10.7	98.5	75-125		20	
Silver	19.1	2.0	mg/kg	20.0	0.108	94.9	75-125		20	
Cobalt	11.4	0.80	mg/kg	8.00	3.44	99.8	75-125		20	
Selenium	70.1	5.0	mg/kg	80.0	1.13	86.2	75-125		20	
Vanadium	54.2	2.5	mg/kg	40.0	17.0	93.0	75-125		20	
Chromium	25.5	2.0	mg/kg	20.0	8.04	87.0	75-125		20	
Cadmium	3.66	0.40	mg/kg	4.00	ND	91.4	75-125		20	
Beryllium	4.65	0.40	mg/kg	4.00	0.874	94.5	75-125		20	
Zinc	34.8	2.0	mg/kg	20.0	17.4	87.2	75-125		20	
Barium	54.0	2.0	mg/kg	40.0	20.6	83.3	75-125		20	
Arsenic	39.0	2.0	mg/kg	40.0	1.46	93.9	75-125		20	
Antimony	15.3	2.0	mg/kg	20.0	2.01	66.2	75-125		20	MS3
Thallium	68.0	5.0	mg/kg	80.0	ND	85.0	75-125		20	
Nickel	23.1	2.0	mg/kg	20.0	5.47	88.0	75-125		20	
Molybdenum	20.2	2.0	mg/kg	20.0	ND	101	75-125		20	
Matrix Spike (T2C1303-MS2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Beryllium	5.24	0.40	mg/kg	4.00	1.75	87.4	75-125		20	
Arsenic	38.1	2.0	mg/kg	40.0	1.90	90.6	75-125		20	
Thallium	67.6	5.0	mg/kg	80.0	ND	84.5	75-125		20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
Matrix Spike (T2C1303-MS2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Selenium	67.8	5.0	mg/kg	80.0	0.379	84.3	75-125		20	
Cobalt	15.0	0.80	mg/kg	8.00	7.18	97.8	75-125		20	
Nickel	27.2	2.0	mg/kg	20.0	10.1	85.4	75-125		20	
Cadmium	3.60	0.40	mg/kg	4.00	0.0233	89.5	75-125		20	
Chromium	32.4	2.0	mg/kg	20.0	16.2	81.2	75-125		20	
Molybdenum	19.7	2.0	mg/kg	20.0	ND	98.7	75-125		20	
Silver	18.4	2.0	mg/kg	20.0	0.141	91.2	75-125		20	
Barium	70.0	2.0	mg/kg	40.0	37.2	82.0	75-125		20	
Copper	38.8	2.0	mg/kg	20.0	19.8	95.1	75-125		20	
Lead	23.3	2.0	mg/kg	20.0	3.59	98.5	70-130		20	
Zinc	50.2	2.0	mg/kg	20.0	31.5	93.3	75-125		20	
Antimony	12.4	2.0	mg/kg	20.0	3.89	42.5	75-125		20	MS3
Vanadium	69.7	2.5	mg/kg	40.0	29.5	101	75-125		20	
Matrix Spike Dup (T2C1303-MSD1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Barium	57.2	2.0	mg/kg	40.0	20.6	91.4	75-125	5.83	20	
Lead	22.3	2.0	mg/kg	20.0	1.87	102	70-130	1.72	20	
Vanadium	54.5	2.5	mg/kg	40.0	17.0	93.7	75-125	0.530	20	
Thallium	68.6	5.0	mg/kg	80.0	ND	85.8	75-125	0.917	20	
Copper	30.4	2.0	mg/kg	20.0	10.7	98.5	75-125	0.00928	20	
Chromium	25.7	2.0	mg/kg	20.0	8.04	88.1	75-125	0.812	20	
Molybdenum	20.4	2.0	mg/kg	20.0	ND	102	75-125	1.25	20	
Selenium	71.3	5.0	mg/kg	80.0	1.13	87.7	75-125	1.66	20	
Zinc	34.1	2.0	mg/kg	20.0	17.4	83.7	75-125	1.98	20	
Cadmium	3.69	0.40	mg/kg	4.00	ND	92.3	75-125	0.926	20	
Nickel	23.4	2.0	mg/kg	20.0	5.47	89.8	75-125	1.54	20	
Cobalt	11.4	0.80	mg/kg	8.00	3.44	100	75-125	0.195	20	
Arsenic	39.1	2.0	mg/kg	40.0	1.46	94.2	75-125	0.342	20	
Silver	19.2	2.0	mg/kg	20.0	0.108	95.6	75-125	0.690	20	
Beryllium	4.55	0.40	mg/kg	4.00	0.874	92.0	75-125	2.20	20	
Antimony	15.5	2.0	mg/kg	20.0	2.01	67.3	75-125	1.36	20	MS3
Matrix Spike Dup (T2C1303-MSD2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Cobalt	14.3	0.80	mg/kg	8.00	7.18	88.7	75-125	4.98	20	
Copper	39.0	2.0	mg/kg	20.0	19.8	96.2	75-125	0.518	20	
Thallium	67.5	5.0	mg/kg	80.0	ND	84.3	75-125	0.227	20	
Zinc	47.3	2.0	mg/kg	20.0	31.5	79.1	75-125	5.82	20	

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
Matrix Spike Dup (T2C1303-MSD2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Silver	18.4	2.0	mg/kg	20.0	0.141	91.3	75-125	0.156	20	
Lead	23.6	2.0	mg/kg	20.0	3.59	100	70-130	1.23	20	
Molybdenum	20.0	2.0	mg/kg	20.0	ND	100	75-125	1.56	20	
Antimony	14.0	2.0	mg/kg	20.0	3.89	50.7	75-125	12.5	20	MS3
Beryllium	5.51	0.40	mg/kg	4.00	1.75	94.1	75-125	4.98	20	
Selenium	69.0	5.0	mg/kg	80.0	0.379	85.8	75-125	1.76	20	
Barium	67.4	2.0	mg/kg	40.0	37.2	75.4	75-125	3.79	20	
Cadmium	3.53	0.40	mg/kg	4.00	0.0233	87.6	75-125	2.07	20	
Arsenic	38.9	2.0	mg/kg	40.0	1.90	92.6	75-125	2.08	20	
Nickel	26.5	2.0	mg/kg	20.0	10.1	82.0	75-125	2.46	20	
Vanadium	66.7	2.5	mg/kg	40.0	29.5	93.2	75-125	4.32	20	
Chromium	31.2	2.0	mg/kg	20.0	16.2	75.2	75-125	3.76	20	
Batch T2C1309										
Blank (T2C1309-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Molybdenum	ND	0.0050	mg/L							
Cadmium	ND	0.0010	mg/L							
Beryllium	0.0000948	0.0010	mg/L							J
Silver	ND	0.0050	mg/L							
Thallium	ND	0.020	mg/L							
Barium	ND	0.010	mg/L							
Arsenic	ND	0.010	mg/L							
Vanadium	ND	0.010	mg/L							
Selenium	ND	0.020	mg/L							
Chromium	ND	0.0050	mg/L							
Zinc	0.000867	0.0050	mg/L							J
Antimony	0.00189	0.0050	mg/L							J
Cobalt	ND	0.0020	mg/L							
Copper	ND	0.0050	mg/L							
Nickel	ND	0.0050	mg/L							
Lead	ND	0.0050	mg/L							
LCS (T2C1309-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Cadmium	0.0214	0.0010	mg/L	0.0200		107	75-125		20	
Lead	0.108	0.0050	mg/L	0.100		108	75-125		20	
Copper	0.103	0.0050	mg/L	0.100		103	75-125		20	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1309										
LCS (T2C1309-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Beryllium	0.0208	0.0010	mg/L	0.0200		104	75-125		20	
Chromium	0.109	0.0050	mg/L	0.100		109	75-125		20	
Vanadium	0.200	0.010	mg/L	0.200		100	75-125		20	
Zinc	0.108	0.0050	mg/L	0.100		108	75-125		20	
Nickel	0.111	0.0050	mg/L	0.100		111	75-125		20	
Barium	0.203	0.010	mg/L	0.200		102	75-125		20	
Arsenic	0.202	0.010	mg/L	0.200		101	75-125		20	
Thallium	0.393	0.020	mg/L	0.400		98.3	75-125		20	
Cobalt	0.0435	0.0020	mg/L	0.0400		109	75-125		20	
Silver	0.101	0.0050	mg/L	0.100		101	75-125		20	
Selenium	0.380	0.020	mg/L	0.400		95.0	75-125		20	
Antimony	0.101	0.0050	mg/L	0.100		101	75-125		20	
Molybdenum	0.106	0.0050	mg/L	0.100		106	75-125		20	
LCS Dup (T2C1309-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Barium	0.202	0.010	mg/L	0.200		101	75-125	0.485	20	
Zinc	0.107	0.0050	mg/L	0.100		107	75-125	1.04	20	
Antimony	0.0974	0.0050	mg/L	0.100		97.4	75-125	3.31	20	
Arsenic	0.199	0.010	mg/L	0.200		99.4	75-125	1.31	20	
Beryllium	0.0208	0.0010	mg/L	0.0200		104	75-125	0.378	20	
Vanadium	0.200	0.010	mg/L	0.200		100	75-125	0.102	20	
Lead	0.106	0.0050	mg/L	0.100		106	75-125	1.59	20	
Nickel	0.110	0.0050	mg/L	0.100		110	75-125	1.15	20	
Silver	0.100	0.0050	mg/L	0.100		100	75-125	0.988	20	
Molybdenum	0.107	0.0050	mg/L	0.100		107	75-125	0.373	20	
Cobalt	0.0438	0.0020	mg/L	0.0400		109	75-125	0.633	20	
Thallium	0.393	0.020	mg/L	0.400		98.4	75-125	0.0979	20	
Chromium	0.107	0.0050	mg/L	0.100		107	75-125	1.24	20	
Selenium	0.373	0.020	mg/L	0.400		93.3	75-125	1.81	20	
Cadmium	0.0211	0.0010	mg/L	0.0200		105	75-125	1.40	20	
Copper	0.102	0.0050	mg/L	0.100		102	75-125	1.10	20	
Matrix Spike (T2C1309-MS1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Vanadium	1.04	0.050	mg/L	1.00	0.0219	102	75-125		20	
Molybdenum	0.548	0.025	mg/L	0.500	0.0117	107	75-125		20	
Zinc	1.37	0.025	mg/L	0.500	0.939	86.7	75-125		20	
Selenium	1.90	0.10	mg/L	2.00	ND	95.1	75-125		20	

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121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1309										
Matrix Spike (T2C1309-MS1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Barium	2.73	0.050	mg/L	1.00	2.07	65.4	75-125		20	MS3
Copper	1.32	0.025	mg/L	0.500	0.848	94.2	75-125		20	
Thallium	0.198	0.10	mg/L	2.00	ND	9.89	75-125		20	MS3
Cobalt	0.215	0.010	mg/L	0.200	0.00327	106	75-125		20	
Nickel	0.569	0.025	mg/L	0.500	0.0160	111	75-125		20	
Arsenic	1.01	0.050	mg/L	1.00	ND	101	75-125		20	
Cadmium	0.108	0.0050	mg/L	0.100	0.00134	107	75-125		20	
Silver	0.503	0.025	mg/L	0.500	0.00607	99.4	75-125		20	
Antimony	0.487	0.025	mg/L	0.500	ND	97.4	75-125		20	
Lead	0.541	0.025	mg/L	0.500	ND	108	75-125		20	
Chromium	0.556	0.025	mg/L	0.500	0.00708	110	75-125		20	
Beryllium	0.106	0.0050	mg/L	0.100	ND	106	75-125		20	
Matrix Spike Dup (T2C1309-MSD1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	1.02	0.050	mg/L	1.00	ND	102	75-125	0.646	20	
Zinc	1.37	0.025	mg/L	0.500	0.939	85.7	75-125	0.360	20	
Antimony	0.501	0.025	mg/L	0.500	ND	100	75-125	2.89	20	
Cobalt	0.216	0.010	mg/L	0.200	0.00327	106	75-125	0.0894	20	
Nickel	0.565	0.025	mg/L	0.500	0.0160	110	75-125	0.683	20	
Lead	0.541	0.025	mg/L	0.500	ND	108	75-125	0.0962	20	
Selenium	1.90	0.10	mg/L	2.00	ND	94.8	75-125	0.307	20	
Barium	2.67	0.050	mg/L	1.00	2.07	59.8	75-125	2.07	20	MS3
Silver	0.497	0.025	mg/L	0.500	0.00607	98.2	75-125	1.21	20	
Thallium	0.220	0.10	mg/L	2.00	ND	11.0	75-125	10.7	20	MS3
Beryllium	0.103	0.0050	mg/L	0.100	ND	103	75-125	2.73	20	
Copper	1.29	0.025	mg/L	0.500	0.848	88.5	75-125	2.18	20	
Molybdenum	0.544	0.025	mg/L	0.500	0.0117	107	75-125	0.732	20	
Cadmium	0.107	0.0050	mg/L	0.100	0.00134	106	75-125	1.09	20	
Vanadium	1.03	0.050	mg/L	1.00	0.0219	101	75-125	0.682	20	
Chromium	0.549	0.025	mg/L	0.500	0.00708	108	75-125	1.31	20	
Batch T2C1401										
Blank (T2C1401-BLK1)				Prepared & Analyzed: 03/15/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C1401-BS1)				Prepared & Analyzed: 03/15/12						
Mercury	0.346	0.013	mg/kg	0.333		104	70-130		20	

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Joseph Bahde

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1401										
LCS Dup (T2C1401-BSD1)				Prepared & Analyzed: 03/15/12						
Mercury	0.348	0.013	mg/kg	0.333		104	70-130	0.519	20	
Matrix Spike (T2C1401-MS1)		**Source: 2C09001-01**		Prepared & Analyzed: 03/15/12						
Mercury	0.514	0.013	mg/kg	0.333	0.0925	127	70-130		20	
Matrix Spike (T2C1401-MS2)		**Source: 2C09001-10**		Prepared & Analyzed: 03/15/12						
Mercury	0.482	0.013	mg/kg	0.335	0.133	104	70-130		20	
Matrix Spike Dup (T2C1401-MSD1)		**Source: 2C09001-01**		Prepared & Analyzed: 03/15/12						
Mercury	0.528	0.013	mg/kg	0.332	0.0925	131	70-130	2.73	20	MS2
Matrix Spike Dup (T2C1401-MSD2)		**Source: 2C09001-10**		Prepared & Analyzed: 03/15/12						
Mercury	0.494	0.013	mg/kg	0.332	0.133	109	70-130	2.57	20	
Batch T2C1410										
Blank (T2C1410-BLK1)				Prepared & Analyzed: 03/16/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C1410-BS1)				Prepared & Analyzed: 03/16/12						
Mercury	0.352	0.013	mg/kg	0.333		106	70-130		20	
LCS Dup (T2C1410-BSD1)				Prepared & Analyzed: 03/16/12						
Mercury	0.334	0.013	mg/kg	0.333		100	70-130	5.11	20	
Matrix Spike (T2C1410-MS1)		**Source: 2C07012-04**		Prepared & Analyzed: 03/16/12						
Mercury	0.424	0.013	mg/kg	0.333	0.0829	103	70-130		20	
Matrix Spike (T2C1410-MS2)		**Source: 2C09001-18**		Prepared & Analyzed: 03/16/12						
Mercury	0.482	0.013	mg/kg	0.335	0.0913	117	70-130		20	
Matrix Spike Dup (T2C1410-MSD1)		**Source: 2C07012-04**		Prepared & Analyzed: 03/16/12						
Mercury	0.455	0.013	mg/kg	0.333	0.0829	112	70-130	6.96	20	
Matrix Spike Dup (T2C1410-MSD2)		**Source: 2C09001-18**		Prepared & Analyzed: 03/16/12						
Mercury	0.476	0.013	mg/kg	0.331	0.0913	116	70-130	1.14	20	

2C07012

NB33778

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company		DATE: 03-06-2012	PAGE 1 OF 2
PROJECT NUMBER: NB1016075A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julio Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent	Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	03/06/12	840	AC13-B3-1.0	X	X			4oz jar	S		–	✓		2	
2	↓	845	AC13a-B1-1.0	X	X			↓	S		–	✓		2	
3		850	AC13-B3-5.0	X	X				S		–	✓		2	
4		900	AC13-B1-1.0	X	X				S		–	✓		2	
5		940	AC13-B3-10.0	X	X			Acetate liner	S		–	✓		1	
6		1100	AC13-B6-1.0	X	X			4oz jar	S		–	✓		2	
7		1210	AC13-B6-5.0	X	X			Acetate liner	S		–	✓		1	
8		1220	AC13-B6-10.0	X	X			↓	S		–	✓		1	
9		1225	AC13-B6-13.5				X	↓	S		–	✓		1	
10		1230	AC13-B7-1.0	X	X			4oz jar	S		–	✓		2	
11		1300	AC13-B7-5.0	X	X			↓	S		–	✓		2	
12		1305	AC13a-B1-5.0	X	X			↓	S		–	✓		2	
13		1310	AC13-B7-10.0	X	X			Acetate liner	S		–	✓		1	
14		1345	AC13-B1-5.0	X	X			4oz jar	S		–	✓		2	
15	↓	1400	AC13-B1-10.0	X	X			↓	S		–	✓		2	

TOTAL NUMBER OF CONTAINERS: 25

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/06/12	17:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/07/12	1020	SIGNATURE: [signature]		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MTA		

SAMPLING COMMENTS:

* CAM17

3°C

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amec

CHAIN-OF-CUSTODY RECORD

2C07012

NB33779

PROJECT NAME: Crown City Plating Company			DATE: 03/06/2012 PAGE 2 OF 2
PROJECT NUMBER: NB1010675 A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Baisde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julio Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
15	03/06/12	1400	CEB-030612	X			125mL HDPE	W		HNO_3	✓		1	
17	↓	1415	AC13-B1-13.0	~~X~~		X	4 oz jar	S		—	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS: 3
SIGNATURE: [signature]	03/06/12	17:00	SIGNATURE:			SAMPLING COMMENTS:
PRINTED NAME: Thet Naing			PRINTED NAME:			* See Page 1
COMPANY: AMEC			COMPANY:			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			3°C
SIGNATURE:	03/07/12	1020	SIGNATURE: [signature]			
PRINTED NAME:			PRINTED NAME: [signature]			
COMPANY:			COMPANY: MTA			

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amec

2C07012

Sample Integrity Pg 3 of 4

Date Received: 05/07/12

Section 1-Sampled Same Day
Sample Transport: Walk In MTA Courier Transported In: ~~Ice Chest~~ Box Hand
Has Chilling Begun? Y N

Section2-Sampled Previously
Sample Transport: CAO UPS Walk-In MTA Courier GSO Fed Ex Other: _____
No. Coolers/Ice Chests: 1 Temperature(s): 4.2°C
Was Temperature In Range: Y or N Received On Ice: Wet Blue
Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: N/A
Were ice chest custody seals present? Y or N Intact: Y or N

Section 3-COC Info.	Completed Yes	Completed No	Info From Container	
Was COC Received	✓			
Date Sampled	✓			
Time Sampled	✓			
Sample ID	✓			
Special Storage/Handling Ins.		✓		

	Completed Yes	Completed No
Analysis Requested	✓	
Any hold times less than 72hr		✓
Client Name	✓	
Address	✓	
Telephone #	✓	

Section4-Bottles/Analysis	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?:	✓			
Were bottle custody seals present?			✓	
Were bottle custody seals intact?			✓	
Did all bottle labels agree with COC?:	✓			
Were correct containers used for the tests requested?:	✓			
Was a sufficient amount of sample sent for tests indicated?:			✓	
Were bubbles present in VOA Vials?: (Volatiles Methods Only)			✓	
Were Ascorbic Acid Bottles received with the VOAs				

Section 5-Comments/Discrepancies

Sample(s) Split/Preserve: Yes No Container: _____ Preservation: _____ Init: _____

Was Client Service Supervisor notified of discrepancies: Yes No N/A Notified by:

Explanations/Comments

Report Comment Entered:

Labeled by: _____ Checked by: _____

Sample Integrity Pg 4 of 4

Moore Twining Bottles Yes No

Plastic 125mL(A) Plastic 250 mL(B) Plastic 1 L (C) Amber Glass(AG)

Sample(s) Received	1-4	5	6	7-9	10-12	13	14-15	16	17	
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic								1A		
H2SO4 Plastic										
NaOH Plastic										
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL	2		2		2		2		2	
Plastic Bag										
Soil Tube		1		1		1				
Tedlar Bags										

FL-SC-0003-01 b

MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

2527 Fresno Street
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(559) 268-7021 Phone
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May 04, 2012

Work Order #: 2C09001

Thet Naing
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 03/09/12 . For your reference, these analyses have been assigned laboratory work order number 2C09001 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Julio Morales
Client Services Supervisor

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW7	2C09001-01	Soil	03/08/12 09:15	03/09/12 09:50
SW8	2C09001-02	Soil	03/08/12 09:20	03/09/12 09:50
SWA1	2C09001-03	Soil	03/08/12 09:25	03/09/12 09:50
SW9	2C09001-04	Soil	03/08/12 09:30	03/09/12 09:50
SW6	2C09001-05	Soil	03/08/12 09:35	03/09/12 09:50
SW5	2C09001-06	Soil	03/08/12 09:40	03/09/12 09:50
SW4	2C09001-07	Soil	03/08/12 09:50	03/09/12 09:50
SW3	2C09001-08	Soil	03/08/12 09:55	03/09/12 09:50
AC09-09	2C09001-09	Soil	03/08/12 10:50	03/09/12 09:50
AC09-08	2C09001-10	Soil	03/08/12 10:55	03/09/12 09:50
AC09-07	2C09001-11	Soil	03/08/12 11:00	03/09/12 09:50
AC09a-01	2C09001-12	Soil	03/08/12 11:05	03/09/12 09:50
AC09-05	2C09001-13	Soil	03/08/12 11:30	03/09/12 09:50
AC09-06	2C09001-14	Soil	03/08/12 11:35	03/09/12 09:50
AC09-04	2C09001-15	Soil	03/08/12 11:45	03/09/12 09:50
AC07-03-1.0	2C09001-16	Soil	03/08/12 11:55	03/09/12 09:50
AC07-03-5.0	2C09001-17	Soil	03/08/12 12:10	03/09/12 09:50
AC07-04-1.0	2C09001-18	Soil	03/08/12 12:30	03/09/12 09:50
AC07-04-5.0	2C09001-19	Soil	03/08/12 12:50	03/09/12 09:50
AC07-06-1.0	2C09001-20	Soil	03/08/12 12:55	03/09/12 09:50
AC07-06-5.0	2C09001-21	Soil	03/08/12 13:10	03/09/12 09:50
AC07-05-1.0	2C09001-22	Soil	03/08/12 13:15	03/09/12 09:50
AC07-05-5.0	2C09001-23	Soil	03/08/12 13:30	03/09/12 09:50
SW1	2C09001-24	Soil	03/08/12 14:10	03/09/12 09:50
SW2	2C09001-25	Soil	03/08/12 14:15	03/09/12 09:50
SW2a	2C09001-26	Soil	03/08/12 14:20	03/09/12 09:50
BK5	2C09001-27	Soil	03/08/12 15:00	03/09/12 09:50
BK6	2C09001-28	Soil	03/08/12 15:10	03/09/12 09:50

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BK7	2C09001-29	Soil	03/08/12 15:20	03/09/12 09:50
QCEB-030812	2C09001-30	Water	03/08/12 15:50	03/09/12 09:50

AMENDED REPORT:

Report now includes Q.C. Data. JCM 3/29/12

Arsenic was analyzed as totals as requested on the COC. JCM 4/6/12

Thallium was previously reported incorrectly. Correct Thallium results are now correct. JCM 4/30/12

Sample 2C09001-05 for metals was spiked by error during analysis. Report has been revised to include the correct metals values. JCM 5/4/12

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW7

2C09001-01 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.4**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Cyanide (total)	**J**	**0.71**	1.0	0.45	mg/kg	1	T2C1501	03/15/12	03/22/12	EPA 9014
Metals - Totals										
Antimony		**7.1**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Arsenic		**10**	2.0	0.22	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Barium		**79**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Beryllium		**3.0**	0.40	0.032	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cadmium	**J**	**0.27**	0.40	0.023	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Chromium		**39**	2.0	0.078	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Cobalt		**14**	0.80	0.022	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Copper		**55**	2.0	0.069	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Lead		**41**	2.0	0.16	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Mercury		**0.092**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.43**	2.0	0.13	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Nickel		**52**	2.0	0.091	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Silver	**J**	**0.23**	2.0	0.10	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Vanadium		**47**	2.5	0.38	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B
Zinc		**86**	2.0	0.060	mg/kg	1	T2C1303	03/13/12	03/16/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW7

2C09001-01RE1 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Thallium		ND	5.0	0.46	mg/kg	1	T2D2324	04/23/12	04/24/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW8

2C09001-02 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**110**	10	0.20	mg/kg	10	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**5.0**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**6.7**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**110**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.0**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.95**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**510**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**9.8**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**200**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**1900**	10	0.78	mg/kg	5	T2C1616	03/16/12	03/23/12	EPA 6010B
Mercury		**0.13**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.30**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**660**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.74**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.3**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**44**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**250**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW8

2C09001-02RE1 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Thallium		ND	5.0	0.46	mg/kg	1	T2D2324	04/23/12	04/24/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SWA1

2C09001-03 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**82**	10	0.20	mg/kg	10	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**6.2**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**5.4**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**89**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**2.8**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.64**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**320**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**10**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**200**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**1200**	10	0.78	mg/kg	5	T2C1616	03/16/12	03/23/12	EPA 6010B
Mercury		**0.074**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.29**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**380**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.4**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.55**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.4**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**41**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**190**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW9

2C09001-04 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.7**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**9.0**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**5.3**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**90**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.0**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium	**J**	**0.096**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**75**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**13**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**140**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**32**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.14**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**28**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.17**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**1.8**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**53**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**86**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW6

2C09001-05 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.1**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**7.8**	2.0	0.10	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Arsenic		**4.7**	2.0	0.22	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Barium		**74**	2.0	0.13	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Beryllium		**3.3**	0.40	0.032	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Chromium		**28**	2.0	0.078	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Copper		**43**	2.0	0.069	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Lead		**20**	2.0	0.16	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Mercury		**0.081**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**1.0**	2.0	0.13	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Nickel		**23**	2.0	0.091	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Selenium	**J**	**3.1**	5.0	0.36	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Thallium	**J**	**1.3**	5.0	0.46	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Vanadium		**55**	2.5	0.38	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B
Zinc		**72**	2.0	0.060	mg/kg	1	T2D2708	04/27/12	04/27/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW5

2C09001-06 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.1**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**9.6**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**5.6**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**89**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.1**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium	**J**	**0.096**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**30**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**55**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**16**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.11**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**21**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**0.91**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.5**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**59**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**78**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW4

2C09001-07 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**400**	10	0.20	mg/kg	10	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**4.1**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**8.9**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**190**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.3**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.42**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**890**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**110**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**3700**	20	1.6	mg/kg	10	T2C1616	03/16/12	03/23/12	EPA 6010B
Mercury		**0.26**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.34**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**270**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.6**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.74**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.7**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**46**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**130**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW3

2C09001-08 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.6**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**9.1**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**5.2**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**90**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.8**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**28**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**52**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**10**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.058**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**21**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.6**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.19**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**3.4**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**56**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**71**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Reported:
5/4/12

AC09-09

2C09001-09 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.8**	1.0	0.020	mg/kg	1	T2C2008	03/20/12	03/20/12	EPA 7196A
Metals - Totals										
Antimony		**7.6**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**4.9**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**87**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.5**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.68**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**120**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**18**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**1700**	10	0.34	mg/kg	5	T2C1616	03/16/12	03/23/12	EPA 6010B
Lead		**21**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.90**	0.053	0.014	mg/kg	4	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.65**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**510**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.5**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.88**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.8**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**49**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**300**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Reported:
5/4/12

AC09-08

2C09001-10 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**6.3**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**8.6**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**5.7**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**82**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.7**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.64**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**85**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**36**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**640**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**85**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.13**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**1.5**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**690**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.1**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**1.0**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**3.4**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**54**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**750**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Reported:
5/4/12

AC09-07

2C09001-11 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.1**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**10**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**7.0**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**89**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.3**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.91**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**68**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**13**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**63**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**15**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.090**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.21**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**250**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.2**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**0.55**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**60**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**230**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
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Reported:
5/4/12

AC09a-01

2C09001-12 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.7**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**9.9**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**8.6**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**92**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.3**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.98**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**74**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**14**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**67**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**15**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.13**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.20**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**270**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**2.2**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.5**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**59**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**250**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Reported:
5/4/12

AC09-05

2C09001-13 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.0**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**6.0**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**3.8**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**62**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**2.8**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**86**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**8.8**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**42**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**12**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.11**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.16**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**23**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.25**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**1.7**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**41**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**61**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC09-06

2C09001-14 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**5.1**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**9.5**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**4.7**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**93**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.1**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**33**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**14**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**79**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**16**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.091**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**33**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**2.1**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.14**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.6**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**56**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**110**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC09-04

2C09001-15 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.4**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**7.4**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**3.6**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**71**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.1**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**32**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**10**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**56**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**14**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.24**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.28**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**29**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.3**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.21**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**2.8**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**45**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**80**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-03-1.0

2C09001-16 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.2**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**8.2**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**7.4**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**89**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.5**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.73**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**28**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**54**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**13**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.11**	0.013	0.0034	mg/kg	1	T2C1401	03/15/12	03/15/12	EPA 7471A
Molybdenum	**J**	**0.14**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**28**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.7**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.11**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**3.0**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**53**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**78**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-03-5.0

2C09001-17 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.3**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**10**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**4.1**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**81**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.2**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**26**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**11**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**53**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**7.6**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.082**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**19**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**0.63**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**0.75**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**56**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**67**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-04-1.0

2C09001-18 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.3**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**10**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**9.9**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**95**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.3**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**0.59**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**47**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**13**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**78**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**21**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.091**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.24**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**30**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**0.83**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		ND	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**1.3**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**62**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**100**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-04-5.0

2C09001-19 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.2**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**8.4**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**3.7**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**74**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**3.6**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**22**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**9.6**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**43**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**6.0**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.094**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**17**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.8**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.24**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**1.4**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**49**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**55**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-06-1.0

2C09001-20 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.8**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**11**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**7.6**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**100**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.5**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		**1.0**	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**54**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**14**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**67**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**14**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.13**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**28**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.4**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver		**3.4**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**0.83**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**62**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**84**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-06-5.0

2C09001-21 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.0**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**9.7**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Arsenic		**4.9**	2.0	0.22	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Barium		**100**	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Beryllium		**4.2**	0.40	0.032	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Chromium		**26**	2.0	0.078	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Copper		**55**	2.0	0.069	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Lead		**7.5**	2.0	0.16	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Mercury		**0.092**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Nickel		**19**	2.0	0.091	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Selenium	**J**	**1.6**	5.0	0.36	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Silver	**J**	**0.33**	2.0	0.10	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Thallium	**J**	**1.5**	5.0	0.46	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Vanadium		**58**	2.5	0.38	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B
Zinc		**65**	2.0	0.060	mg/kg	1	T2C1616	03/16/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

AC07-05-1.0

2C09001-22 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**5.8**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**11**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Arsenic		**7.0**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Barium		**97**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Beryllium		**4.6**	0.40	0.032	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cadmium	**J**	**0.29**	0.40	0.023	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Chromium		**44**	2.0	0.078	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cobalt		**13**	0.80	0.022	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Copper		**100**	2.0	0.069	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Lead		**15**	2.0	0.16	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Mercury		**0.17**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum	**J**	**0.23**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Nickel		**35**	2.0	0.091	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Selenium	**J**	**0.80**	5.0	0.36	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Silver	**J**	**0.61**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Thallium	**J**	**0.82**	5.0	0.46	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Vanadium		**66**	2.5	0.38	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Zinc		**87**	2.0	0.060	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B

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Reported:
5/4/12

AC07-05-5.0

2C09001-23 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.0**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**10**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Arsenic		**4.5**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Barium		**92**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Beryllium		**4.2**	0.40	0.032	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cadmium		ND	0.40	0.023	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Chromium		**28**	2.0	0.078	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cobalt		**12**	0.80	0.022	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Copper		**54**	2.0	0.069	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Lead		**7.9**	2.0	0.16	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Mercury		**0.12**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Nickel		**20**	2.0	0.091	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Selenium	**J**	**1.4**	5.0	0.36	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Silver	**J**	**0.32**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Thallium	**J**	**1.5**	5.0	0.46	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Vanadium		**60**	2.5	0.38	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Zinc		**68**	2.0	0.060	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW1

2C09001-24 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.7**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Metals - Totals										
Antimony		**8.9**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Arsenic		**6.5**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Barium		**83**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Beryllium		**3.7**	0.40	0.032	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cadmium	**J**	**0.12**	0.40	0.023	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Chromium		**35**	2.0	0.078	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cobalt		**17**	0.80	0.022	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Copper		**50**	2.0	0.069	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Lead		**11**	2.0	0.16	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Mercury		**0.27**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Nickel		**54**	2.0	0.091	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Selenium	**J**	**1.3**	5.0	0.36	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Silver	**J**	**0.14**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Thallium	**J**	**0.82**	5.0	0.46	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Vanadium		**52**	2.5	0.38	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Zinc		**71**	2.0	0.060	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

SW2

2C09001-25 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**3.8**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Cyanide (total)		ND	1.0	0.45	mg/kg	1	T2C1501	03/15/12	03/22/12	EPA 9014
Metals - Totals										
Antimony		**9.9**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Arsenic		**5.6**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Barium		**89**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Beryllium		**4.1**	0.40	0.032	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cadmium		**0.59**	0.40	0.023	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Chromium		**28**	2.0	0.078	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cobalt		**17**	0.80	0.022	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Copper		**53**	2.0	0.069	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Lead		**11**	2.0	0.16	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Mercury		**0.096**	0.013	0.0034	mg/kg	1	T2C1410	03/16/12	03/16/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Nickel		**2600**	20	0.91	mg/kg	10	T2C1907	03/19/12	03/23/12	EPA 6010B
Selenium	**J**	**1.1**	5.0	0.36	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Silver	**J**	**0.13**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Thallium	**J**	**1.6**	5.0	0.46	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Vanadium		**57**	2.5	0.38	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Zinc		**76**	2.0	0.060	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B

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Project Manager: Thet Naing

Reported:
5/4/12

SW2a

2C09001-26 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Hexavalent Chromium		**4.4**	1.0	0.020	mg/kg	1	T2C2205	03/22/12	03/22/12	EPA 7196A
Cyanide (total)		ND	1.0	0.45	mg/kg	1	T2C1501	03/15/12	03/22/12	EPA 9014
Metals - Totals										
Antimony		**9.6**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Arsenic		**5.5**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Barium		**87**	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Beryllium		**4.0**	0.40	0.032	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cadmium		**0.65**	0.40	0.023	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Chromium		**29**	2.0	0.078	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Cobalt		**18**	0.80	0.022	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Copper		**54**	2.0	0.069	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Lead		**12**	2.0	0.16	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Mercury		**0.098**	0.013	0.0034	mg/kg	1	T2C2206	03/22/12	03/22/12	EPA 7471A
Molybdenum		ND	2.0	0.13	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Nickel		**2800**	20	0.91	mg/kg	10	T2C1907	03/19/12	03/23/12	EPA 6010B
Selenium	**J**	**1.1**	5.0	0.36	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Silver	**J**	**0.12**	2.0	0.10	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Thallium	**J**	**2.4**	5.0	0.46	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Vanadium		**58**	2.5	0.38	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B
Zinc		**78**	2.0	0.060	mg/kg	1	T2C1907	03/19/12	03/20/12	EPA 6010B

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Project Manager: Thet Naing

Reported:
5/4/12

BK5
2C09001-27 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Arsenic		**3.0**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	04/05/12	EPA 6010B

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Reported:
5/4/12

BK6
2C09001-28 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Arsenic		**6.2**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	04/05/12	EPA 6010B

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Reported:
5/4/12

BK7
2C09001-29 (Soil)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals - Totals										
Arsenic		**5.2**	2.0	0.22	mg/kg	1	T2C1907	03/19/12	04/05/12	EPA 6010B

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Reported:
5/4/12

QCEB-030812

2C09001-30 (Water)

Analyte	Notes	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
Inorganics										
Cyanide (total)		ND	5.0	2.8	µg/L	1	T2C0801	03/13/12	03/13/12	SM4500CN-E
Metals - Totals										
Antimony		ND	0.0050	0.0015	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Arsenic		ND	0.010	0.0022	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Barium		ND	0.010	0.00078	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Beryllium		ND	0.0010	0.000072	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cadmium		ND	0.0010	0.00018	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Chromium		ND	0.0050	0.00065	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Cobalt		ND	0.0020	0.00037	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Copper		ND	0.0050	0.00060	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Lead		ND	0.0050	0.00078	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Mercury		ND	0.20	0.062	µg/L	1	T2C0914	03/12/12	03/12/12	EPA 7470A
Molybdenum		ND	0.0050	0.00050	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Nickel		ND	0.0050	0.00072	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Selenium	**J**	**0.0034**	0.020	0.0025	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Silver		ND	0.0050	0.00066	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Thallium		ND	0.020	0.0043	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Vanadium		ND	0.010	0.00012	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B
Zinc	**J**	**0.0012**	0.0050	0.00058	mg/L	1	T2C1309	03/13/12	03/15/12	EPA 6010B

Notes and Definitions

RPD3	The RPD is out of range for this spike and its duplicate due to a low or high bias of one of the two spikes.
NH	QC Criteria out of range due to non-homogeneous sample matrix.
MS4	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration.
MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
MS1	Recovery for this analyte was affected by matrix.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
BS2	Recovery for this analyte was biased low. Results were accepted based on duplicate results.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C0801										
Blank (T2C0801-BLK1)				Prepared: 03/08/12 Analyzed: 03/13/12						
Cyanide (total)	ND	5.0	µg/L							
LCS (T2C0801-BS1)				Prepared: 03/08/12 Analyzed: 03/13/12						
Cyanide (total)	49.8	5.0	µg/L	50.0		99.6	80-120		20	
LCS Dup (T2C0801-BSD1)				Prepared: 03/08/12 Analyzed: 03/13/12						
Cyanide (total)	43.6	5.0	µg/L	50.0		87.2	80-120	13.3	20	
Matrix Spike (T2C0801-MS1)		**Source: 2B29002-01**		Prepared: 03/08/12 Analyzed: 03/13/12						
Cyanide (total)	51.8	5.0	µg/L	50.0	3.20	97.2	80-120		20	
Matrix Spike Dup (T2C0801-MSD1)		**Source: 2B29002-01**		Prepared: 03/08/12 Analyzed: 03/13/12						
Cyanide (total)	47.7	5.0	µg/L	50.0	3.20	89.0	80-120	8.24	20	
Batch T2C1501										
Blank (T2C1501-BLK1)				Prepared: 03/15/12 Analyzed: 03/22/12						
Cyanide (total)	ND	1.0	mg/kg							
LCS (T2C1501-BS1)				Prepared: 03/15/12 Analyzed: 03/22/12						
Cyanide (total)	4.75	1.0	mg/kg	5.00		95.0	80-120		20	
LCS Dup (T2C1501-BSD1)				Prepared: 03/15/12 Analyzed: 03/22/12						
Cyanide (total)	4.54	1.0	mg/kg	5.00		90.8	80-120	4.52	20	
Matrix Spike (T2C1501-MS1)		**Source: 2C08006-01**		Prepared: 03/15/12 Analyzed: 03/22/12						
Cyanide (total)	4.38	1.0	mg/kg	5.02	ND	87.2	80-120		20	
Matrix Spike Dup (T2C1501-MSD1)		**Source: 2C08006-01**		Prepared: 03/15/12 Analyzed: 03/22/12						
Cyanide (total)	4.69	1.0	mg/kg	5.01	ND	93.6	80-120	6.88	20	
Batch T2C2008										
Blank (T2C2008-BLK1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2C2008-BS1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	9.90	1.0	mg/kg	10.0		99.0	80-120		20	
LCS Dup (T2C2008-BSD1)				Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	9.77	1.0	mg/kg	10.0		97.7	80-120	1.36	20	
Matrix Spike (T2C2008-MS1)		**Source: 2C07012-15**		Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	229	10	mg/kg	9.73	177	534	80-120		20	MS2
Matrix Spike Dup (T2C2008-MSD1)		**Source: 2C07012-15**		Prepared & Analyzed: 03/20/12						
Hexavalent Chromium	212	10	mg/kg	9.17	177	382	80-120	7.66	20	MS2

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C2205										
Blank (T2C2205-BLK1)				Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2C2205-BS1)				Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	9.88	1.0	mg/kg	10.0		98.8	80-120		20	
LCS Dup (T2C2205-BSD1)				Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	9.88	1.0	mg/kg	10.0		98.8	80-120	0.00	20	
Matrix Spike (T2C2205-MS1)		**Source: 2C09001-10**		Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	6.55	1.0	mg/kg	9.97	6.27	2.78	80-120		20	MS3
Matrix Spike (T2C2205-MS2)		**Source: 2C09001-20**		Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	4.43	1.0	mg/kg	9.86	4.79	NR	80-120		20	MS3
Matrix Spike Dup (T2C2205-MSD1)		**Source: 2C09001-10**		Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	6.52	1.0	mg/kg	9.94	6.27	2.58	80-120	0.319	20	MS3
Matrix Spike Dup (T2C2205-MSD2)		**Source: 2C09001-20**		Prepared & Analyzed: 03/22/12						
Hexavalent Chromium	4.98	1.0	mg/kg	10.2	4.79	1.87	80-120	11.8	20	MS3

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C0914										
Blank (T2C0914-BLK1)				Prepared & Analyzed: 03/12/12						
Mercury	0.0628	0.20	µg/L							J
LCS (T2C0914-BS1)				Prepared & Analyzed: 03/12/12						
Mercury	3.29	0.20	µg/L	5.00		65.8	80-120		20	BS2
LCS Dup (T2C0914-BSD1)				Prepared & Analyzed: 03/12/12						
Mercury	4.51	0.20	µg/L	5.00		90.2	80-120	31.2	20	RPD3
Matrix Spike (T2C0914-MS1)		**Source: 2C08013-02**		Prepared & Analyzed: 03/12/12						
Mercury	20.3	1.2	µg/L	30.0	ND	67.8	70-130		20	MS1
Matrix Spike (T2C0914-MS2)		**Source: 2C08013-04**		Prepared & Analyzed: 03/12/12						
Mercury	17.8	1.2	µg/L	30.0	1.23	55.2	70-130		20	MS1
Matrix Spike Dup (T2C0914-MSD1)		**Source: 2C08013-02**		Prepared & Analyzed: 03/12/12						
Mercury	20.7	1.2	µg/L	30.0	ND	69.0	70-130	1.73	20	MS1
Matrix Spike Dup (T2C0914-MSD2)		**Source: 2C08013-04**		Prepared & Analyzed: 03/12/12						
Mercury	14.4	1.2	µg/L	30.0	1.23	44.0	70-130	20.7	20	MS1
Batch T2C1303										
Blank (T2C1303-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Antimony	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Zinc	0.101	2.0	mg/kg							J
Cadmium	ND	0.40	mg/kg							
Lead	ND	2.0	mg/kg							
Selenium	0.467	5.0	mg/kg							J
Beryllium	ND	0.40	mg/kg							
Thallium	ND	5.0	mg/kg							
Barium	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Silver	ND	2.0	mg/kg							
Copper	0.0828	2.0	mg/kg							J
Arsenic	ND	2.0	mg/kg							
Chromium	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
LCS (T2C1303-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Lead	21.7	2.0	mg/kg	20.0		109	70-130		20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
LCS (T2C1303-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Beryllium	4.12	0.40	mg/kg	4.00		103	75-125		20	
Silver	20.3	2.0	mg/kg	20.0		102	75-125		20	
Cadmium	4.30	0.40	mg/kg	4.00		107	75-125		20	
Selenium	75.6	5.0	mg/kg	80.0		94.6	75-125		20	
Molybdenum	22.0	2.0	mg/kg	20.0		110	75-125		20	
Nickel	20.3	2.0	mg/kg	20.0		101	75-125		20	
Cobalt	8.87	0.80	mg/kg	8.00		111	75-125		20	
Arsenic	40.6	2.0	mg/kg	40.0		101	75-125		20	
Antimony	20.3	2.0	mg/kg	20.0		102	75-125		20	
Copper	21.4	2.0	mg/kg	20.0		107	75-125		20	
Thallium	72.9	5.0	mg/kg	80.0		91.1	75-125		20	
Vanadium	40.9	2.5	mg/kg	40.0		102	75-125		20	
Chromium	20.5	2.0	mg/kg	20.0		103	75-125		20	
Zinc	19.9	2.0	mg/kg	20.0		99.6	75-125		20	
Barium	40.6	2.0	mg/kg	40.0		102	75-125		20	
LCS Dup (T2C1303-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Chromium	20.3	2.0	mg/kg	20.0		102	75-125	0.907	20	
Cobalt	8.89	0.80	mg/kg	8.00		111	75-125	0.253	20	
Antimony	20.3	2.0	mg/kg	20.0		102	75-125	0.104	20	
Zinc	19.6	2.0	mg/kg	20.0		98.1	75-125	1.58	20	
Beryllium	4.20	0.40	mg/kg	4.00		105	75-125	1.90	20	
Barium	40.8	2.0	mg/kg	40.0		102	75-125	0.477	20	
Thallium	72.6	5.0	mg/kg	80.0		90.8	75-125	0.350	20	
Lead	21.8	2.0	mg/kg	20.0		109	70-130	0.643	20	
Molybdenum	22.0	2.0	mg/kg	20.0		110	75-125	0.394	20	
Silver	20.3	2.0	mg/kg	20.0		102	75-125	0.194	20	
Arsenic	40.3	2.0	mg/kg	40.0		101	75-125	0.528	20	
Cadmium	4.26	0.40	mg/kg	4.00		107	75-125	0.856	20	
Copper	21.3	2.0	mg/kg	20.0		107	75-125	0.176	20	
Vanadium	40.5	2.5	mg/kg	40.0		101	75-125	0.978	20	
Selenium	75.3	5.0	mg/kg	80.0		94.1	75-125	0.485	20	
Nickel	20.0	2.0	mg/kg	20.0		100	75-125	1.11	20	
Matrix Spike (T2C1303-MS1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Vanadium	54.2	2.5	mg/kg	40.0	17.0	93.0	75-125		20	
Zinc	34.8	2.0	mg/kg	20.0	17.4	87.2	75-125		20	

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Project Manager: Thet Naing

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5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
Matrix Spike (T2C1303-MS1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Molybdenum	20.2	2.0	mg/kg	20.0	ND	101	75-125		20	
Selenium	70.1	5.0	mg/kg	80.0	1.13	86.2	75-125		20	
Silver	19.1	2.0	mg/kg	20.0	0.108	94.9	75-125		20	
Thallium	68.0	5.0	mg/kg	80.0	ND	85.0	75-125		20	
Chromium	25.5	2.0	mg/kg	20.0	8.04	87.0	75-125		20	
Cobalt	11.4	0.80	mg/kg	8.00	3.44	99.8	75-125		20	
Antimony	15.3	2.0	mg/kg	20.0	2.01	66.2	75-125		20	MS3
Copper	30.4	2.0	mg/kg	20.0	10.7	98.5	75-125		20	
Barium	54.0	2.0	mg/kg	40.0	20.6	83.3	75-125		20	
Beryllium	4.65	0.40	mg/kg	4.00	0.874	94.5	75-125		20	
Cadmium	3.66	0.40	mg/kg	4.00	ND	91.4	75-125		20	
Nickel	23.1	2.0	mg/kg	20.0	5.47	88.0	75-125		20	
Arsenic	39.0	2.0	mg/kg	40.0	1.46	93.9	75-125		20	
Lead	21.9	2.0	mg/kg	20.0	1.87	100	70-130		20	
Matrix Spike (T2C1303-MS2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Selenium	67.8	5.0	mg/kg	80.0	0.379	84.3	75-125		20	
Molybdenum	19.7	2.0	mg/kg	20.0	ND	98.7	75-125		20	
Copper	38.8	2.0	mg/kg	20.0	19.8	95.1	75-125		20	
Chromium	32.4	2.0	mg/kg	20.0	16.2	81.2	75-125		20	
Thallium	67.6	5.0	mg/kg	80.0	ND	84.5	75-125		20	
Silver	18.4	2.0	mg/kg	20.0	0.141	91.2	75-125		20	
Zinc	50.2	2.0	mg/kg	20.0	31.5	93.3	75-125		20	
Lead	23.3	2.0	mg/kg	20.0	3.59	98.5	70-130		20	
Vanadium	69.7	2.5	mg/kg	40.0	29.5	101	75-125		20	
Arsenic	38.1	2.0	mg/kg	40.0	1.90	90.6	75-125		20	
Nickel	27.2	2.0	mg/kg	20.0	10.1	85.4	75-125		20	
Cadmium	3.60	0.40	mg/kg	4.00	0.0233	89.5	75-125		20	
Cobalt	15.0	0.80	mg/kg	8.00	7.18	97.8	75-125		20	
Beryllium	5.24	0.40	mg/kg	4.00	1.75	87.4	75-125		20	
Barium	70.0	2.0	mg/kg	40.0	37.2	82.0	75-125		20	
Antimony	12.4	2.0	mg/kg	20.0	3.89	42.5	75-125		20	MS3
Matrix Spike Dup (T2C1303-MSD1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	39.1	2.0	mg/kg	40.0	1.46	94.2	75-125	0.342	20	
Zinc	34.1	2.0	mg/kg	20.0	17.4	83.7	75-125	1.98	20	
Cadmium	3.69	0.40	mg/kg	4.00	ND	92.3	75-125	0.926	20	

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Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1303										
Matrix Spike Dup (T2C1303-MSD1)		**Source: 2C06003-69**		Prepared: 03/13/12 Analyzed: 03/15/12						
Thallium	68.6	5.0	mg/kg	80.0	ND	85.8	75-125	0.917	20	
Antimony	15.5	2.0	mg/kg	20.0	2.01	67.3	75-125	1.36	20	MS3
Beryllium	4.55	0.40	mg/kg	4.00	0.874	92.0	75-125	2.20	20	
Selenium	71.3	5.0	mg/kg	80.0	1.13	87.7	75-125	1.66	20	
Silver	19.2	2.0	mg/kg	20.0	0.108	95.6	75-125	0.690	20	
Copper	30.4	2.0	mg/kg	20.0	10.7	98.5	75-125	0.00928	20	
Vanadium	54.5	2.5	mg/kg	40.0	17.0	93.7	75-125	0.530	20	
Chromium	25.7	2.0	mg/kg	20.0	8.04	88.1	75-125	0.812	20	
Barium	57.2	2.0	mg/kg	40.0	20.6	91.4	75-125	5.83	20	
Cobalt	11.4	0.80	mg/kg	8.00	3.44	100	75-125	0.195	20	
Lead	22.3	2.0	mg/kg	20.0	1.87	102	70-130	1.72	20	
Nickel	23.4	2.0	mg/kg	20.0	5.47	89.8	75-125	1.54	20	
Molybdenum	20.4	2.0	mg/kg	20.0	ND	102	75-125	1.25	20	
Matrix Spike Dup (T2C1303-MSD2)		**Source: 2C07012-10**		Prepared: 03/13/12 Analyzed: 03/16/12						
Cadmium	3.53	0.40	mg/kg	4.00	0.0233	87.6	75-125	2.07	20	
Molybdenum	20.0	2.0	mg/kg	20.0	ND	100	75-125	1.56	20	
Arsenic	38.9	2.0	mg/kg	40.0	1.90	92.6	75-125	2.08	20	
Lead	23.6	2.0	mg/kg	20.0	3.59	100	70-130	1.23	20	
Barium	67.4	2.0	mg/kg	40.0	37.2	75.4	75-125	3.79	20	
Silver	18.4	2.0	mg/kg	20.0	0.141	91.3	75-125	0.156	20	
Thallium	67.5	5.0	mg/kg	80.0	ND	84.3	75-125	0.227	20	
Antimony	14.0	2.0	mg/kg	20.0	3.89	50.7	75-125	12.5	20	MS3
Copper	39.0	2.0	mg/kg	20.0	19.8	96.2	75-125	0.518	20	
Vanadium	66.7	2.5	mg/kg	40.0	29.5	93.2	75-125	4.32	20	
Cobalt	14.3	0.80	mg/kg	8.00	7.18	88.7	75-125	4.98	20	
Beryllium	5.51	0.40	mg/kg	4.00	1.75	94.1	75-125	4.98	20	
Chromium	31.2	2.0	mg/kg	20.0	16.2	75.2	75-125	3.76	20	
Zinc	47.3	2.0	mg/kg	20.0	31.5	79.1	75-125	5.82	20	
Selenium	69.0	5.0	mg/kg	80.0	0.379	85.8	75-125	1.76	20	
Nickel	26.5	2.0	mg/kg	20.0	10.1	82.0	75-125	2.46	20	
Batch T2C1309										
Blank (T2C1309-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Thallium	ND	0.020	mg/L							
Beryllium	0.0000948	0.0010	mg/L							J

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Reported:
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1309										
Blank (T2C1309-BLK1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Nickel	ND	0.0050	mg/L							
Lead	ND	0.0050	mg/L							
Silver	ND	0.0050	mg/L							
Selenium	ND	0.020	mg/L							
Cadmium	ND	0.0010	mg/L							
Cobalt	ND	0.0020	mg/L							
Copper	ND	0.0050	mg/L							
Vanadium	ND	0.010	mg/L							
Molybdenum	ND	0.0050	mg/L							
Antimony	0.00189	0.0050	mg/L							J
Chromium	ND	0.0050	mg/L							
Zinc	0.000867	0.0050	mg/L							J
Barium	ND	0.010	mg/L							
Arsenic	ND	0.010	mg/L							
LCS (T2C1309-BS1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Nickel	0.111	0.0050	mg/L	0.100		111	75-125		20	
Silver	0.101	0.0050	mg/L	0.100		101	75-125		20	
Thallium	0.393	0.020	mg/L	0.400		98.3	75-125		20	
Vanadium	0.200	0.010	mg/L	0.200		100	75-125		20	
Zinc	0.108	0.0050	mg/L	0.100		108	75-125		20	
Selenium	0.380	0.020	mg/L	0.400		95.0	75-125		20	
Molybdenum	0.106	0.0050	mg/L	0.100		106	75-125		20	
Chromium	0.109	0.0050	mg/L	0.100		109	75-125		20	
Arsenic	0.202	0.010	mg/L	0.200		101	75-125		20	
Cobalt	0.0435	0.0020	mg/L	0.0400		109	75-125		20	
Antimony	0.101	0.0050	mg/L	0.100		101	75-125		20	
Cadmium	0.0214	0.0010	mg/L	0.0200		107	75-125		20	
Beryllium	0.0208	0.0010	mg/L	0.0200		104	75-125		20	
Barium	0.203	0.010	mg/L	0.200		102	75-125		20	
Copper	0.103	0.0050	mg/L	0.100		103	75-125		20	
Lead	0.108	0.0050	mg/L	0.100		108	75-125		20	
LCS Dup (T2C1309-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	0.199	0.010	mg/L	0.200		99.4	75-125	1.31	20	
Zinc	0.107	0.0050	mg/L	0.100		107	75-125	1.04	20	
Antimony	0.0974	0.0050	mg/L	0.100		97.4	75-125	3.31	20	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1309										
LCS Dup (T2C1309-BSD1)				Prepared: 03/13/12 Analyzed: 03/15/12						
Vanadium	0.200	0.010	mg/L	0.200		100	75-125	0.102	20	
Silver	0.100	0.0050	mg/L	0.100		100	75-125	0.988	20	
Barium	0.202	0.010	mg/L	0.200		101	75-125	0.485	20	
Beryllium	0.0208	0.0010	mg/L	0.0200		104	75-125	0.378	20	
Chromium	0.107	0.0050	mg/L	0.100		107	75-125	1.24	20	
Cobalt	0.0438	0.0020	mg/L	0.0400		109	75-125	0.633	20	
Thallium	0.393	0.020	mg/L	0.400		98.4	75-125	0.0979	20	
Lead	0.106	0.0050	mg/L	0.100		106	75-125	1.59	20	
Selenium	0.373	0.020	mg/L	0.400		93.3	75-125	1.81	20	
Molybdenum	0.107	0.0050	mg/L	0.100		107	75-125	0.373	20	
Cadmium	0.0211	0.0010	mg/L	0.0200		105	75-125	1.40	20	
Copper	0.102	0.0050	mg/L	0.100		102	75-125	1.10	20	
Nickel	0.110	0.0050	mg/L	0.100		110	75-125	1.15	20	
Matrix Spike (T2C1309-MS1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Molybdenum	0.548	0.025	mg/L	0.500	0.0117	107	75-125		20	
Vanadium	1.04	0.050	mg/L	1.00	0.0219	102	75-125		20	
Silver	0.503	0.025	mg/L	0.500	0.00607	99.4	75-125		20	
Cadmium	0.108	0.0050	mg/L	0.100	0.00134	107	75-125		20	
Lead	0.541	0.025	mg/L	0.500	ND	108	75-125		20	
Thallium	0.198	0.10	mg/L	2.00	ND	9.89	75-125		20	MS3
Selenium	1.90	0.10	mg/L	2.00	ND	95.1	75-125		20	
Nickel	0.569	0.025	mg/L	0.500	0.0160	111	75-125		20	
Barium	2.73	0.050	mg/L	1.00	2.07	65.4	75-125		20	MS3
Copper	1.32	0.025	mg/L	0.500	0.848	94.2	75-125		20	
Zinc	1.37	0.025	mg/L	0.500	0.939	86.7	75-125		20	
Arsenic	1.01	0.050	mg/L	1.00	ND	101	75-125		20	
Cobalt	0.215	0.010	mg/L	0.200	0.00327	106	75-125		20	
Chromium	0.556	0.025	mg/L	0.500	0.00708	110	75-125		20	
Beryllium	0.106	0.0050	mg/L	0.100	ND	106	75-125		20	
Antimony	0.487	0.025	mg/L	0.500	ND	97.4	75-125		20	
Matrix Spike Dup (T2C1309-MSD1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Selenium	1.90	0.10	mg/L	2.00	ND	94.8	75-125	0.307	20	
Zinc	1.37	0.025	mg/L	0.500	0.939	85.7	75-125	0.360	20	
Silver	0.497	0.025	mg/L	0.500	0.00607	98.2	75-125	1.21	20	
Thallium	0.220	0.10	mg/L	2.00	ND	11.0	75-125	10.7	20	MS3

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1309										
Matrix Spike Dup (T2C1309-MSD1)		**Source: 2C06005-01**		Prepared: 03/13/12 Analyzed: 03/15/12						
Arsenic	1.02	0.050	mg/L	1.00	ND	102	75-125	0.646	20	
Lead	0.541	0.025	mg/L	0.500	ND	108	75-125	0.0962	20	
Copper	1.29	0.025	mg/L	0.500	0.848	88.5	75-125	2.18	20	
Antimony	0.501	0.025	mg/L	0.500	ND	100	75-125	2.89	20	
Beryllium	0.103	0.0050	mg/L	0.100	ND	103	75-125	2.73	20	
Nickel	0.565	0.025	mg/L	0.500	0.0160	110	75-125	0.683	20	
Vanadium	1.03	0.050	mg/L	1.00	0.0219	101	75-125	0.682	20	
Cobalt	0.216	0.010	mg/L	0.200	0.00327	106	75-125	0.0894	20	
Chromium	0.549	0.025	mg/L	0.500	0.00708	108	75-125	1.31	20	
Cadmium	0.107	0.0050	mg/L	0.100	0.00134	106	75-125	1.09	20	
Barium	2.67	0.050	mg/L	1.00	2.07	59.8	75-125	2.07	20	MS3
Molybdenum	0.544	0.025	mg/L	0.500	0.0117	107	75-125	0.732	20	
Batch T2C1401										
Blank (T2C1401-BLK1)				Prepared & Analyzed: 03/15/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C1401-BS1)				Prepared & Analyzed: 03/15/12						
Mercury	0.346	0.013	mg/kg	0.333		104	70-130		20	
LCS Dup (T2C1401-BSD1)				Prepared & Analyzed: 03/15/12						
Mercury	0.348	0.013	mg/kg	0.333		104	70-130	0.519	20	
Matrix Spike (T2C1401-MS1)		**Source: 2C09001-01**		Prepared & Analyzed: 03/15/12						
Mercury	0.514	0.013	mg/kg	0.333	0.0925	127	70-130		20	
Matrix Spike (T2C1401-MS2)		**Source: 2C09001-10**		Prepared & Analyzed: 03/15/12						
Mercury	0.482	0.013	mg/kg	0.335	0.133	104	70-130		20	
Matrix Spike Dup (T2C1401-MSD1)		**Source: 2C09001-01**		Prepared & Analyzed: 03/15/12						
Mercury	0.528	0.013	mg/kg	0.332	0.0925	131	70-130	2.73	20	MS2
Matrix Spike Dup (T2C1401-MSD2)		**Source: 2C09001-10**		Prepared & Analyzed: 03/15/12						
Mercury	0.494	0.013	mg/kg	0.332	0.133	109	70-130	2.57	20	
Batch T2C1410										
Blank (T2C1410-BLK1)				Prepared & Analyzed: 03/16/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C1410-BS1)				Prepared & Analyzed: 03/16/12						
Mercury	0.352	0.013	mg/kg	0.333		106	70-130		20	

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Project Manager: Thet Naing

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1410										
LCS Dup (T2C1410-BSD1)				Prepared & Analyzed: 03/16/12						
Mercury	0.334	0.013	mg/kg	0.333		100	70-130	5.11	20	
Matrix Spike (T2C1410-MS1)		**Source: 2C07012-04**		Prepared & Analyzed: 03/16/12						
Mercury	0.424	0.013	mg/kg	0.333	0.0829	103	70-130		20	
Matrix Spike (T2C1410-MS2)		**Source: 2C09001-18**		Prepared & Analyzed: 03/16/12						
Mercury	0.482	0.013	mg/kg	0.335	0.0913	117	70-130		20	
Matrix Spike Dup (T2C1410-MSD1)		**Source: 2C07012-04**		Prepared & Analyzed: 03/16/12						
Mercury	0.455	0.013	mg/kg	0.333	0.0829	112	70-130	6.96	20	
Matrix Spike Dup (T2C1410-MSD2)		**Source: 2C09001-18**		Prepared & Analyzed: 03/16/12						
Mercury	0.476	0.013	mg/kg	0.331	0.0913	116	70-130	1.14	20	
Batch T2C1616										
Blank (T2C1616-BLK1)				Prepared: 03/16/12 Analyzed: 03/20/12						
Chromium	ND	2.0	mg/kg							
Copper	ND	2.0	mg/kg							
Molybdenum	0.160	2.0	mg/kg							J
Nickel	ND	2.0	mg/kg							
Antimony	0.488	2.0	mg/kg							J
Selenium	0.519	5.0	mg/kg							J
Zinc	0.186	2.0	mg/kg							J
Silver	ND	2.0	mg/kg							
Arsenic	ND	2.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Thallium	0.626	5.0	mg/kg							J
Beryllium	ND	0.40	mg/kg							
Barium	ND	2.0	mg/kg							
Cadmium	ND	0.40	mg/kg							
Cobalt	ND	0.80	mg/kg							
Lead	ND	2.0	mg/kg							
LCS (T2C1616-BS1)				Prepared: 03/16/12 Analyzed: 03/20/12						
Silver	20.2	2.0	mg/kg	20.0		101	75-125		20	
Antimony	20.2	2.0	mg/kg	20.0		101	75-125		20	
Nickel	19.9	2.0	mg/kg	20.0		99.3	75-125		20	
Zinc	19.5	2.0	mg/kg	20.0		97.7	75-125		20	
Thallium	75.1	5.0	mg/kg	80.0		93.9	75-125		20	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1616										
LCS (T2C1616-BS1)				Prepared: 03/16/12 Analyzed: 03/20/12						
Cobalt	8.78	0.80	mg/kg	8.00		110	75-125		20	
Arsenic	39.6	2.0	mg/kg	40.0		99.1	75-125		20	
Vanadium	39.9	2.5	mg/kg	40.0		99.7	75-125		20	
Cadmium	4.23	0.40	mg/kg	4.00		106	75-125		20	
Molybdenum	22.1	2.0	mg/kg	20.0		110	75-125		20	
Selenium	75.4	5.0	mg/kg	80.0		94.3	75-125		20	
Beryllium	3.89	0.40	mg/kg	4.00		97.3	75-125		20	
Lead	21.8	2.0	mg/kg	20.0		109	70-130		20	
Chromium	20.2	2.0	mg/kg	20.0		101	75-125		20	
Copper	19.8	2.0	mg/kg	20.0		99.0	75-125		20	
Barium	41.0	2.0	mg/kg	40.0		103	75-125		20	
LCS Dup (T2C1616-BSD1)				Prepared: 03/16/12 Analyzed: 03/20/12						
Nickel	20.2	2.0	mg/kg	20.0		101	75-125	1.71	20	
Vanadium	40.3	2.5	mg/kg	40.0		101	75-125	1.13	20	
Antimony	20.1	2.0	mg/kg	20.0		101	75-125	0.528	20	
Beryllium	3.87	0.40	mg/kg	4.00		96.6	75-125	0.687	20	
Zinc	19.7	2.0	mg/kg	20.0		98.7	75-125	1.05	20	
Selenium	75.6	5.0	mg/kg	80.0		94.4	75-125	0.159	20	
Molybdenum	22.1	2.0	mg/kg	20.0		111	75-125	0.349	20	
Silver	20.4	2.0	mg/kg	20.0		102	75-125	1.16	20	
Cadmium	4.21	0.40	mg/kg	4.00		105	75-125	0.314	20	
Lead	21.6	2.0	mg/kg	20.0		108	70-130	0.661	20	
Copper	20.1	2.0	mg/kg	20.0		101	75-125	1.55	20	
Thallium	75.6	5.0	mg/kg	80.0		94.5	75-125	0.666	20	
Arsenic	39.8	2.0	mg/kg	40.0		99.4	75-125	0.346	20	
Chromium	20.6	2.0	mg/kg	20.0		103	75-125	1.79	20	
Barium	41.1	2.0	mg/kg	40.0		103	75-125	0.147	20	
Cobalt	8.82	0.80	mg/kg	8.00		110	75-125	0.420	20	
Matrix Spike (T2C1616-MS1)		**Source: 2C09001-02**		Prepared: 03/16/12 Analyzed: 03/20/12						
Nickel	367	2.0	mg/kg	19.8	661	NR	75-125		20	MS4
Vanadium	80.0	2.5	mg/kg	39.6	43.9	91.2	75-125		20	RPD3
Thallium	70.2	5.0	mg/kg	79.2	2.27	85.7	75-125		20	RPD3
Selenium	62.3	5.0	mg/kg	79.2	1.68	76.5	75-125		20	RPD3
Silver	17.4	2.0	mg/kg	19.8	0.736	84.3	75-125		20	RPD3
Molybdenum	17.9	2.0	mg/kg	19.8	0.301	89.1	75-125		20	RPD3

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1616										
Matrix Spike (T2C1616-MS1)		**Source: 2C09001-02**		Prepared: 03/16/12 Analyzed: 03/20/12						
Barium	121	2.0	mg/kg	39.6	109	31.0	75-125		20	MS3
Beryllium	6.30	0.40	mg/kg	3.96	2.97	84.0	75-125		20	RPD3
Arsenic	37.7	2.0	mg/kg	39.6	6.69	78.3	75-125		20	RPD3
Lead	853	2.0	mg/kg	19.8	1950	NR	70-130		20	MS4
Copper	253	2.0	mg/kg	19.8	199	275	75-125		20	MS4
Cadmium	3.94	0.40	mg/kg	3.96	0.953	75.4	75-125		20	RPD3
Chromium	268	2.0	mg/kg	19.8	508	NR	75-125		20	MS4
Cobalt	19.6	0.80	mg/kg	7.92	9.78	124	75-125		20	RPD3
Zinc	211	2.0	mg/kg	19.8	252	NR	75-125		20	MS4
Antimony	11.4	2.0	mg/kg	19.8	4.96	32.7	75-125		20	MS3
Matrix Spike (T2C1616-MS2)		**Source: 2C09001-12**		Prepared: 03/16/12 Analyzed: 03/20/12						
Antimony	12.8	2.0	mg/kg	19.9	9.94	14.2	75-125		20	MS3
Molybdenum	17.4	2.0	mg/kg	19.9	0.196	86.2	75-125		20	
Arsenic	38.7	2.0	mg/kg	39.9	8.60	75.5	75-125		20	
Vanadium	87.1	2.5	mg/kg	39.9	59.2	70.0	75-125		20	MS3
Barium	102	2.0	mg/kg	39.9	91.6	25.1	75-125		20	MS3
Cadmium	3.96	0.40	mg/kg	3.99	0.984	74.6	75-125		20	MS3
Lead	29.4	2.0	mg/kg	19.9	14.8	73.4	70-130		20	
Copper	77.8	2.0	mg/kg	19.9	67.4	52.2	75-125		20	NH
Cobalt	18.0	0.80	mg/kg	7.97	13.7	54.2	75-125		20	MS3
Silver	16.8	2.0	mg/kg	19.9	ND	84.5	75-125		20	
Chromium	76.3	2.0	mg/kg	19.9	73.6	13.7	75-125		20	MS3
Thallium	69.8	5.0	mg/kg	79.7	2.52	84.5	75-125		20	
Selenium	61.8	5.0	mg/kg	79.7	2.16	74.9	75-125		20	MS3
Nickel	225	2.0	mg/kg	19.9	266	NR	75-125		20	MS4
Beryllium	6.98	0.40	mg/kg	3.99	4.30	67.3	75-125		20	MS3
Zinc	217	2.0	mg/kg	19.9	246	NR	75-125		20	MS4
Matrix Spike Dup (T2C1616-MSD2)		**Source: 2C09001-12**		Prepared: 03/16/12 Analyzed: 03/20/12						
Copper	107	2.0	mg/kg	19.8	67.4	201	75-125	31.7	20	NH
Lead	31.2	2.0	mg/kg	19.8	14.8	83.1	70-130	5.99	20	
Molybdenum	16.5	2.0	mg/kg	19.8	0.196	82.3	75-125	5.27	20	
Cobalt	22.3	0.80	mg/kg	7.92	13.7	109	75-125	21.3	20	RPD3
Vanadium	95.4	2.5	mg/kg	39.6	59.2	91.3	75-125	9.07	20	
Zinc	275	2.0	mg/kg	19.8	246	144	75-125	23.6	20	MS4
Thallium	66.3	5.0	mg/kg	79.2	2.52	80.5	75-125	5.24	20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1616										
Matrix Spike Dup (T2C1616-MSD2)		**Source: 2C09001-12**		Prepared: 03/16/12 Analyzed: 03/20/12						
Arsenic	39.5	2.0	mg/kg	39.6	8.60	77.9	75-125	1.96	20	
Barium	119	2.0	mg/kg	39.6	91.6	70.5	75-125	16.2	20	MS3
Nickel	295	2.0	mg/kg	19.8	266	144	75-125	27.0	20	MS4
Cadmium	4.10	0.40	mg/kg	3.96	0.984	78.6	75-125	3.50	20	
Antimony	13.4	2.0	mg/kg	19.8	9.94	17.6	75-125	4.98	20	MS3
Beryllium	7.47	0.40	mg/kg	3.96	4.30	80.1	75-125	6.78	20	
Silver	15.8	2.0	mg/kg	19.8	ND	80.0	75-125	6.10	20	
Selenium	57.5	5.0	mg/kg	79.2	2.16	69.9	75-125	7.25	20	MS3
Chromium	89.5	2.0	mg/kg	19.8	73.6	80.3	75-125	15.9	20	
Batch T2C1907										
Blank (T2C1907-BLK1)				Prepared: 03/19/12 Analyzed: 03/20/12						
Lead	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Selenium	ND	5.0	mg/kg							
Zinc	0.148	2.0	mg/kg							J
Thallium	ND	5.0	mg/kg							
Silver	ND	2.0	mg/kg							
Cadmium	ND	0.40	mg/kg							
Beryllium	ND	0.40	mg/kg							
Antimony	0.340	2.0	mg/kg							J
Nickel	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Barium	ND	2.0	mg/kg							
Chromium	ND	2.0	mg/kg							
Arsenic	ND	2.0	mg/kg							
Copper	ND	2.0	mg/kg							
LCS (T2C1907-BS1)				Prepared: 03/19/12 Analyzed: 03/20/12						
Molybdenum	21.8	2.0	mg/kg	20.0		109	75-125		20	
Cobalt	8.83	0.80	mg/kg	8.00		110	75-125		20	
Vanadium	39.7	2.5	mg/kg	40.0		99.2	75-125		20	
Zinc	19.5	2.0	mg/kg	20.0		97.3	75-125		20	
Beryllium	3.90	0.40	mg/kg	4.00		97.4	75-125		20	
Antimony	20.7	2.0	mg/kg	20.0		104	75-125		20	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1907										
LCS (T2C1907-BS1)				Prepared: 03/19/12 Analyzed: 03/20/12						
Thallium	74.5	5.0	mg/kg	80.0		93.1	75-125		20	
Chromium	20.3	2.0	mg/kg	20.0		101	75-125		20	
Barium	40.4	2.0	mg/kg	40.0		101	75-125		20	
Copper	19.6	2.0	mg/kg	20.0		97.8	75-125		20	
Nickel	19.9	2.0	mg/kg	20.0		99.7	75-125		20	
Arsenic	40.4	2.0	mg/kg	40.0		101	75-125		20	
Lead	21.5	2.0	mg/kg	20.0		108	70-130		20	
Silver	20.1	2.0	mg/kg	20.0		101	75-125		20	
Selenium	75.5	5.0	mg/kg	80.0		94.4	75-125		20	
Cadmium	4.24	0.40	mg/kg	4.00		106	75-125		20	
LCS Dup (T2C1907-BSD1)				Prepared: 03/19/12 Analyzed: 03/20/12						
Selenium	76.1	5.0	mg/kg	80.0		95.1	75-125	0.697	20	
Arsenic	40.5	2.0	mg/kg	40.0		101	75-125	0.351	20	
Barium	40.1	2.0	mg/kg	40.0		100	75-125	0.716	20	
Thallium	74.5	5.0	mg/kg	80.0		93.2	75-125	0.0711	20	
Nickel	19.8	2.0	mg/kg	20.0		98.8	75-125	0.994	20	
Cobalt	8.78	0.80	mg/kg	8.00		110	75-125	0.569	20	
Antimony	20.3	2.0	mg/kg	20.0		102	75-125	1.87	20	
Copper	19.2	2.0	mg/kg	20.0		96.2	75-125	1.67	20	
Zinc	19.4	2.0	mg/kg	20.0		96.8	75-125	0.551	20	
Cadmium	4.23	0.40	mg/kg	4.00		106	75-125	0.330	20	
Molybdenum	21.6	2.0	mg/kg	20.0		108	75-125	1.16	20	
Beryllium	3.80	0.40	mg/kg	4.00		95.0	75-125	2.54	20	
Chromium	20.1	2.0	mg/kg	20.0		100	75-125	1.04	20	
Silver	20.0	2.0	mg/kg	20.0		99.8	75-125	0.686	20	
Lead	21.5	2.0	mg/kg	20.0		107	70-130	0.204	20	
Vanadium	39.4	2.5	mg/kg	40.0		98.6	75-125	0.638	20	
Matrix Spike (T2C1907-MS1)		**Source: 2C09001-22**		Prepared: 03/19/12 Analyzed: 03/20/12						
Nickel	56.5	2.0	mg/kg	19.8	34.6	110	75-125		20	
Beryllium	8.25	0.40	mg/kg	3.97	4.55	93.2	75-125		20	
Lead	31.8	2.0	mg/kg	19.8	14.9	85.1	70-130		20	
Selenium	57.0	5.0	mg/kg	79.4	0.801	70.7	75-125		20	MS3
Barium	139	2.0	mg/kg	39.7	97.0	106	75-125		20	
Arsenic	37.7	2.0	mg/kg	39.7	6.98	77.3	75-125		20	
Antimony	15.8	2.0	mg/kg	19.8	11.3	22.9	75-125		20	MS3

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1907										
Matrix Spike (T2C1907-MS1)		**Source: 2C09001-22**		Prepared: 03/19/12 Analyzed: 03/20/12						
Zinc	108	2.0	mg/kg	19.8	86.8	105	75-125		20	
Copper	165	2.0	mg/kg	19.8	102	316	75-125		20	MS4
Chromium	68.0	2.0	mg/kg	19.8	44.2	120	75-125		20	
Molybdenum	16.1	2.0	mg/kg	19.8	0.234	80.1	75-125		20	
Cadmium	2.96	0.40	mg/kg	3.97	0.286	67.5	75-125		20	MS3
Silver	16.5	2.0	mg/kg	19.8	0.613	79.9	75-125		20	
Vanadium	102	2.5	mg/kg	39.7	65.5	92.0	75-125		20	
Thallium	65.2	5.0	mg/kg	79.4	0.822	81.1	75-125		20	
Cobalt	19.7	0.80	mg/kg	7.94	13.2	81.1	75-125		20	
Matrix Spike (T2C1907-MS2)		**Source: 2C16009-03**		Prepared: 03/19/12 Analyzed: 03/21/12						
Nickel	28.9	2.0	mg/kg	19.9	12.1	84.6	75-125		20	
Molybdenum	19.2	2.0	mg/kg	19.9	1.50	89.1	75-125		20	
Zinc	57.6	2.0	mg/kg	19.9	42.8	74.4	75-125		20	MS3
Thallium	67.4	5.0	mg/kg	79.5	2.07	82.1	75-125		20	
Silver	17.7	2.0	mg/kg	19.9	0.159	88.0	75-125		20	
Lead	21.1	2.0	mg/kg	19.9	2.83	91.6	70-130		20	
Selenium	65.3	5.0	mg/kg	79.5	1.26	80.5	75-125		20	
Copper	30.7	2.0	mg/kg	19.9	11.5	96.3	75-125		20	
Vanadium	74.1	2.5	mg/kg	39.8	38.1	90.5	75-125		20	
Chromium	34.3	2.0	mg/kg	19.9	16.2	90.9	75-125		20	
Cadmium	3.51	0.40	mg/kg	3.98	0.409	77.9	75-125		20	
Beryllium	5.03	0.40	mg/kg	3.98	1.73	82.9	75-125		20	
Cobalt	12.3	0.80	mg/kg	7.95	6.64	71.3	75-125		20	MS3
Barium	98.2	2.0	mg/kg	39.8	73.7	61.7	75-125		20	MS3
Antimony	12.4	2.0	mg/kg	19.9	4.18	41.3	75-125		20	MS3
Arsenic	36.5	2.0	mg/kg	39.8	1.63	87.6	75-125		20	
Matrix Spike Dup (T2C1907-MSD1)		**Source: 2C09001-22**		Prepared: 03/19/12 Analyzed: 03/20/12						
Molybdenum	16.2	2.0	mg/kg	19.8	0.234	80.9	75-125	0.490	20	
Antimony	15.3	2.0	mg/kg	19.8	11.3	20.3	75-125	3.46	20	MS3
Vanadium	98.0	2.5	mg/kg	39.5	65.5	82.3	75-125	3.98	20	
Lead	31.2	2.0	mg/kg	19.8	14.9	82.2	70-130	2.02	20	
Thallium	64.8	5.0	mg/kg	79.1	0.822	80.9	75-125	0.592	20	
Silver	16.2	2.0	mg/kg	19.8	0.613	78.8	75-125	1.77	20	
Copper	141	2.0	mg/kg	19.8	102	199	75-125	15.3	20	MS4
Selenium	56.1	5.0	mg/kg	79.1	0.801	70.0	75-125	1.46	20	MS3

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
5/4/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C1907										
Matrix Spike Dup (T2C1907-MSD1)		**Source: 2C09001-22**		Prepared: 03/19/12 Analyzed: 03/20/12						
Cobalt	19.4	0.80	mg/kg	7.91	13.2	77.5	75-125	1.58	20	
Beryllium	7.83	0.40	mg/kg	3.95	4.55	82.9	75-125	5.27	20	
Nickel	52.3	2.0	mg/kg	19.8	34.6	89.7	75-125	7.72	20	
Zinc	102	2.0	mg/kg	19.8	86.8	78.3	75-125	5.06	20	
Chromium	61.5	2.0	mg/kg	19.8	44.2	87.4	75-125	9.97	20	
Barium	125	2.0	mg/kg	39.5	97.0	70.2	75-125	11.0	20	MS3
Cadmium	3.05	0.40	mg/kg	3.95	0.286	69.8	75-125	2.71	20	MS3
Arsenic	37.3	2.0	mg/kg	39.5	6.98	76.7	75-125	0.951	20	
Matrix Spike Dup (T2C1907-MSD2)		**Source: 2C16009-03**		Prepared: 03/19/12 Analyzed: 03/21/12						
Cobalt	12.9	0.80	mg/kg	8.08	6.64	77.5	75-125	4.73	20	
Molybdenum	19.9	2.0	mg/kg	20.2	1.50	91.1	75-125	3.56	20	
Zinc	59.4	2.0	mg/kg	20.2	42.8	82.3	75-125	3.12	20	
Silver	18.1	2.0	mg/kg	20.2	0.159	88.8	75-125	2.52	20	
Nickel	28.7	2.0	mg/kg	20.2	12.1	82.4	75-125	0.603	20	
Thallium	68.6	5.0	mg/kg	80.8	2.07	82.4	75-125	1.85	20	
Selenium	68.0	5.0	mg/kg	80.8	1.26	82.6	75-125	4.07	20	
Copper	31.8	2.0	mg/kg	20.2	11.5	101	75-125	3.74	20	
Cadmium	3.66	0.40	mg/kg	4.04	0.409	80.4	75-125	4.15	20	
Chromium	34.5	2.0	mg/kg	20.2	16.2	90.7	75-125	0.690	20	
Beryllium	5.24	0.40	mg/kg	4.04	1.73	86.8	75-125	4.11	20	
Arsenic	38.0	2.0	mg/kg	40.4	1.63	90.1	75-125	4.16	20	
Antimony	13.3	2.0	mg/kg	20.2	4.18	45.0	75-125	6.78	20	MS3
Lead	21.6	2.0	mg/kg	20.2	2.83	92.9	70-130	2.57	20	
Vanadium	75.0	2.5	mg/kg	40.4	38.1	91.4	75-125	1.26	20	
Barium	102	2.0	mg/kg	40.4	73.7	69.8	75-125	3.69	20	MS3
Batch T2C2206										
Blank (T2C2206-BLK1)				Prepared & Analyzed: 03/22/12						
Mercury	ND	0.013	mg/kg							
LCS (T2C2206-BS1)				Prepared & Analyzed: 03/22/12						
Mercury	0.339	0.013	mg/kg	0.333		102	70-130		20	
LCS Dup (T2C2206-BSD1)				Prepared & Analyzed: 03/22/12						
Mercury	0.347	0.013	mg/kg	0.333		104	70-130	2.35	20	
Matrix Spike (T2C2206-MS1)		**Source: 2C09001-26**		Prepared & Analyzed: 03/22/12						
Mercury	0.555	0.013	mg/kg	0.333	0.0982	137	70-130		20	MS2

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2C2206										
Matrix Spike Dup (T2C2206-MSD1)		**Source: 2C09001-26**		Prepared & Analyzed: 03/22/12						
Mercury	0.574	0.013	mg/kg	0.333	0.0982	143	70-130	3.24	20	MS2
Batch T2D2324										
Blank (T2D2324-BLK1)				Prepared: 04/23/12 Analyzed: 04/24/12						
Thallium	ND	5.0	mg/kg							
LCS (T2D2324-BS1)				Prepared: 04/23/12 Analyzed: 04/24/12						
Thallium	78.2	5.0	mg/kg	80.0		97.7	75-125		20	
LCS Dup (T2D2324-BSD1)				Prepared: 04/23/12 Analyzed: 04/24/12						
Thallium	75.2	5.0	mg/kg	80.0		94.0	75-125	3.87	20	
Matrix Spike (T2D2324-MS1)		**Source: 2D12043-01**		Prepared: 04/23/12 Analyzed: 04/24/12						
Thallium	70.1	5.0	mg/kg	80.0	ND	87.7	75-125		20	
Matrix Spike Dup (T2D2324-MSD1)		**Source: 2D12043-01**		Prepared: 04/23/12 Analyzed: 04/24/12						
Thallium	67.8	5.0	mg/kg	79.2	ND	85.6	75-125	3.39	20	
Batch T2D2708										
Blank (T2D2708-BLK1)				Prepared & Analyzed: 04/27/12						
Thallium	ND	5.0	mg/kg							
Copper	0.130	2.0	mg/kg							J
Antimony	0.337	2.0	mg/kg							J
Beryllium	ND	0.40	mg/kg							
Zinc	0.0966	2.0	mg/kg							J
Barium	ND	2.0	mg/kg							
Arsenic	ND	2.0	mg/kg							
Selenium	ND	5.0	mg/kg							
Lead	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Nickel	ND	2.0	mg/kg							
Silver	ND	2.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Chromium	ND	2.0	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Cadmium	ND	0.40	mg/kg							
LCS (T2D2708-BS1)				Prepared & Analyzed: 04/27/12						
Zinc	19.6	2.0	mg/kg	20.0		98.2	75-125		20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2D2708										
LCS (T2D2708-BS1)				Prepared & Analyzed: 04/27/12						
Cadmium	3.84	0.40	mg/kg	4.00		96.0	75-125		20	
Arsenic	39.7	2.0	mg/kg	40.0		99.2	75-125		20	
Selenium	75.1	5.0	mg/kg	80.0		93.9	75-125		20	
Nickel	19.2	2.0	mg/kg	20.0		95.9	75-125		20	
Silver	20.6	2.0	mg/kg	20.0		103	75-125		20	
Copper	21.0	2.0	mg/kg	20.0		105	75-125		20	
Cobalt	9.10	0.80	mg/kg	8.00		114	75-125		20	
Lead	21.7	2.0	mg/kg	20.0		109	70-130		20	
Molybdenum	21.5	2.0	mg/kg	20.0		108	75-125		20	
Vanadium	39.7	2.5	mg/kg	40.0		99.1	75-125		20	
Beryllium	4.07	0.40	mg/kg	4.00		102	75-125		20	
Thallium	75.2	5.0	mg/kg	80.0		94.0	75-125		20	
Chromium	19.9	2.0	mg/kg	20.0		99.7	75-125		20	
Antimony	20.2	2.0	mg/kg	20.0		101	75-125		20	
Barium	39.6	2.0	mg/kg	40.0		99.0	75-125		20	
LCS Dup (T2D2708-BSD1)				Prepared & Analyzed: 04/27/12						
Copper	20.3	2.0	mg/kg	20.0		102	75-125	3.32	20	
Beryllium	3.66	0.40	mg/kg	4.00		91.5	75-125	10.7	20	
Antimony	19.2	2.0	mg/kg	20.0		96.2	75-125	5.06	20	
Arsenic	38.5	2.0	mg/kg	40.0		96.2	75-125	3.03	20	
Zinc	19.0	2.0	mg/kg	20.0		95.0	75-125	3.23	20	
Barium	38.2	2.0	mg/kg	40.0		95.6	75-125	3.50	20	
Cadmium	3.70	0.40	mg/kg	4.00		92.6	75-125	3.61	20	
Selenium	72.7	5.0	mg/kg	80.0		90.9	75-125	3.23	20	
Silver	19.7	2.0	mg/kg	20.0		98.7	75-125	4.40	20	
Thallium	71.8	5.0	mg/kg	80.0		89.7	75-125	4.66	20	
Chromium	19.1	2.0	mg/kg	20.0		95.4	75-125	4.43	20	
Lead	20.9	2.0	mg/kg	20.0		105	70-130	3.84	20	
Nickel	18.5	2.0	mg/kg	20.0		92.6	75-125	3.49	20	
Vanadium	38.0	2.5	mg/kg	40.0		94.9	75-125	4.34	20	
Molybdenum	20.7	2.0	mg/kg	20.0		103	75-125	4.16	20	
Cobalt	8.75	0.80	mg/kg	8.00		109	75-125	3.89	20	
Matrix Spike (T2D2708-MS1)		**Source: 2C09001-05**		Prepared & Analyzed: 04/27/12						
Beryllium	6.76	0.40	mg/kg	3.99	3.34	85.8	75-125		20	
Chromium	45.9	2.0	mg/kg	19.9	28.5	87.6	75-125		20	

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2D2708										
Matrix Spike (T2D2708-MS1)		**Source: 2C09001-05**		Prepared & Analyzed: 04/27/12						
Selenium	60.4	5.0	mg/kg	79.7	3.10	71.8	75-125		20	MS3
Nickel	39.9	2.0	mg/kg	19.9	22.5	87.3	75-125		20	
Antimony	12.3	2.0	mg/kg	19.9	7.85	22.2	75-125		20	MS3
Barium	106	2.0	mg/kg	39.9	74.5	79.2	75-125		20	
Cadmium	2.95	0.40	mg/kg	3.99	ND	74.1	75-125		20	MS3
Silver	16.1	2.0	mg/kg	19.9	ND	80.8	75-125		20	
Vanadium	89.7	2.5	mg/kg	39.9	55.3	86.2	75-125		20	
Arsenic	34.8	2.0	mg/kg	39.9	4.65	75.7	75-125		20	
Cobalt	18.0	0.80	mg/kg	7.97	11.6	79.5	75-125		20	
Zinc	87.2	2.0	mg/kg	19.9	71.9	76.6	75-125		20	
Thallium	66.4	5.0	mg/kg	79.7	1.29	81.6	75-125		20	
Molybdenum	17.6	2.0	mg/kg	19.9	1.01	83.2	75-125		20	
Lead	42.2	2.0	mg/kg	19.9	19.6	113	70-130		20	RPD3
Copper	60.6	2.0	mg/kg	19.9	43.4	86.0	75-125		20	
Matrix Spike Dup (T2D2708-MSD1)		**Source: 2C09001-05**		Prepared & Analyzed: 04/27/12						
Cadmium	2.93	0.40	mg/kg	4.02	ND	73.0	75-125	0.608	20	MS3
Barium	106	2.0	mg/kg	40.2	74.5	79.8	75-125	0.444	20	
Nickel	40.3	2.0	mg/kg	20.1	22.5	88.4	75-125	0.901	20	
Beryllium	6.66	0.40	mg/kg	4.02	3.34	82.7	75-125	1.45	20	
Arsenic	34.4	2.0	mg/kg	40.2	4.65	74.0	75-125	1.31	20	MS3
Zinc	87.4	2.0	mg/kg	20.1	71.9	77.4	75-125	0.316	20	
Silver	16.1	2.0	mg/kg	20.1	ND	79.9	75-125	0.285	20	
Molybdenum	17.1	2.0	mg/kg	20.1	1.01	80.2	75-125	2.69	20	
Copper	61.1	2.0	mg/kg	20.1	43.4	88.1	75-125	0.900	20	
Chromium	54.1	2.0	mg/kg	20.1	28.5	128	75-125	16.3	20	MS2
Antimony	12.6	2.0	mg/kg	20.1	7.85	23.6	75-125	2.57	20	MS3
Cobalt	18.1	0.80	mg/kg	8.04	11.6	80.6	75-125	0.735	20	
Lead	79.7	2.0	mg/kg	20.1	19.6	299	70-130	61.5	20	MS2, RPD3
Thallium	65.6	5.0	mg/kg	80.4	1.29	80.1	75-125	1.13	20	
Vanadium	89.1	2.5	mg/kg	40.2	55.3	84.1	75-125	0.678	20	
Selenium	59.1	5.0	mg/kg	80.4	3.10	69.7	75-125	2.13	20	MS3

CHAIN-OF-CUSTODY RECORD 2C09001 NB 33783

PROJECT NAME: Crown City Plating Company		DATE: 03/08/2012	PAGE 1 OF 2
PROJECT NUMBER: NB1016075A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD:	LABORATORY CONTACT: Julio Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent	Chromium (7199/7196)	Cyanide (9010B/9014)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/08/12	915	SW7	X	X		X	4oz jar	S		–	✓		2	
	920	SW8	X	X				S		–	✓		2	
	925	SWA1	X	X				S		–	✓		2	
	930	SW9	X	X				S		–	✓		2	
	935	SW6	X	X				S		–	✓		2	
	940	SW5	X	X				S		–	✓		2	
	950	SW4	X	X				S		–	✓		2	
	955	SW3	X	X				S		–	✓		2	
	1050	AC09-09	X	X				S		–	✓		2	
	1055	AC09-08	X	X				S		–	✓		2	
	1100	AC09-07	X	X				S		–	✓		2	
	1105	AC09a-01	X	X				S		–	✓		2	
	1130	AC09-05	X	X				S		–	✓		2	
	1135	AC09-06	X	X				S		–	✓		2	
	1145	AC09-04	X	X				S		–	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/08/12	18:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/09/12	0950	SIGNATURE: [signature]		
PRINTED NAME:			PRINTED NAME: Fleman Sanchez		
COMPANY:			COMPANY: MAS		

TOTAL NUMBER OF CONTAINERS: 30

SAMPLING COMMENTS:

* CAM 17 (6010B/7471A)

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

CHAIN-OF-CUSTODY RECORD 2C09021 NB33784

PROJECT NAME: Crown City Plating Company			DATE: 03/08/2012 PAGE 2 OF 2
PROJECT NUMBER: NB10160754	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bakke	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julio Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium (7199/7196)	Cyanide (6010B/9014)	Arsenic	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
03/08/12	1155	AC07-03-1.0	X	X			4 oz jar	S		-	✓		2	
	1210	AC07-03-5.0	X	X				S		-	✓		2	
	1230	AC07-04-1.0	X	X				S		-	✓		2	
	1250	AC07-04-5.0	X	X				S		-	✓		2	
	1255	AC07-06-1.0	X	X				S		-	✓		2	
	1310	AC07-06-5.0	X	X				S		-	✓		2	
	1315	AC07-05-1.0	X	X				S		-	✓		2	
	1330	AC07-05-5.0	X	X				S		-	✓		2	
	1410	SW1	X	X				S		-	✓		2	
	1415	SW2	X	X	X			S		-	✓		2	
	1420	SW2a	X	X	X			S		-	✓		2	
	1500	BK5				X		S		-	✓		1	
	1510	BK6				X		S		-	✓		1	
	1510	BK7				X		S		-	✓		1	
	1550	QCEB-030812	X		X		125mL & 250mL HDPE	W		HNO3/HCl	✓		2	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/08/12	1800	SIGNATURE:		
PRINTED NAME: Thor Maing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/09/12	0950	SIGNATURE: [signature]		
PRINTED NAME:			PRINTED NAME: Heather Sanchez		
COMPANY:			COMPANY: [signature]		

TOTAL NUMBER OF CONTAINERS: 27

SAMPLING COMMENTS:

* CAM17 (6010B/7471A)

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

Sample Integrity Pg 2 of 3

Date Received: 03/08/12

Section 1-Sampled Same Day
Sample Transport: Walk in MTA Courier Transported In: Ice Chest Box Hand
Has Chilling Begun? Y N

Section2-Sampled Previously
Sample Transport: CAO UPS Walk-In MTA Courier GSO Fed Ex Other: ____

No. Coolers/Ice Chests: 1 Temperature(s): 4.2° c

Was Temperature In Range: Y or N Received On Ice: Wet Blue

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: n/a

Were ice chest custody seals present? Y or N Intact: Y or N

Section 3-COC Info.	Completed Yes	Completed No	Info From Container			Completed Yes	Completed No
Was COC Received	✓				Analysis Requested	✓	
Date Sampled	✓				Any hold times less than 72hr		✓
Time Sampled	✓				Client Name	✓	
Sample ID	✓				Address	✓	
Special Storage/Handling Ins.		✓			Telephone #	✓	

Section4-Bottles/Analysis	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?:	✓			
Were bottle custody seals present?			✓	
Were bottle custody seals intact?			✓	
Did all bottle labels agree with COC?:	✓			
Were correct containers used for the tests requested?:	✓			
Was a sufficient amount of sample sent for tests indicated?:	✓			
Were bubbles present in VOA Vials?: (Volatiles Methods Only)			✓	
Were Ascorbic Acid Bottles received with the VOAs			✓	

Section 5-Comments/Discrepancies

Sample(s) Split/Preserve: Yes No Container: ____ Preservation: ____ Init: ____

Was Client Service Supervisor notified of discrepancies: Yes No N/A Notified by:

Explanations/Comments

Report Comment Entered:

Labeled by: ____ Checked by: ____

2C09001

Sample Integrity Pg 3 of 3

Moore Twining Bottles Yes No

	Plastic 125mL(A)	Plastic 250 mL(B)	Plastic 1 L (C)	Amber Glass(AG)						
Sample(s) Received	1-26	27-29	30							
Bacti 100mL Thiosulfate										
None Plastic										
HNO3 Plastic			1A							
H2SO4 Plastic										
NaOH Plastic			1B							
Other										
Client Own										
1 L Plastic NaOH/ZnAc										
250mL (AG) None										
250mL (AG) H2SO4										
250mL (AG) Na2S2O3 515, 547, 548										
40mL (AG) Na2S2O3 + K Citrate 532										
250mL (AG) Other										
500mL Clear Glass w/ None Odor/Color/Turbidity										
1 Liter (AG) None										
1 Liter (AG) HCl										
1 Liter (AG) Na2S2O3										
1 Liter Plastic(P) unpreserved										
40mL VOA Vial -HCl VOC										
40mL VOA Vial -None										
40mL VOA Vial -H3PO4										
40mL VOA Vial (AG) -Na2S2O3 (THM)										
40mL VOA Vial -Na2S2O3										
Asbestos 1 L Plastic										
Gross Alpha/ Beta 1L Plastic HNO3 each										
Radiological 226 /228 (1 L Plastic HNO3) each										
Radon										
Low Level Hg / Metals Double Baggie										
THM Formation Potential 4-40 mL VOA w/ None										
Soil Jars Clear Glass 125mL 250mL 500mL	2	1								
Plastic Bag										
Soil Tube										
Tedlar Bags										

FL-SC-0003-01 b

MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

June 06, 2012

Work Order #: 2E22003

Joseph Bahde
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 05/22/12 . For your reference, these analyses have been assigned laboratory work order number 2E22003 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Julio Morales
Client Services Supervisor

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC05-B5-15.0	2E22003-01	Soil	03/01/12 13:45	05/22/12 12:00
AC05-B5-20.0	2E22003-02	Soil	03/02/12 13:45	05/22/12 12:00

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

AC05-B5-15.0

2E22003-01 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**36**	1.0	0.020	mg/kg	1	T2F0406	06/04/12	06/05/12	EPA 7196A	**HT2**
Metals - Totals										
Antimony	**5.5**	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Arsenic	**2.7**	2.0	0.22	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Barium	**49**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Beryllium	**2.5**	0.40	0.032	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cadmium	**0.29**	0.40	0.023	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Chromium	**45**	2.0	0.078	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cobalt	**8.5**	0.80	0.022	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Copper	**30**	2.0	0.069	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Lead	**5.4**	2.0	0.16	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Mercury	**0.18**	0.013	0.0034	mg/kg	1	T2E2501	05/25/12	05/25/12	EPA 7471A	*
Molybdenum	**0.71**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Nickel	**9.7**	2.0	0.091	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Selenium	**3.1**	5.0	0.36	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Thallium	**2.2**	5.0	0.46	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Vanadium	**52**	2.5	0.38	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Zinc	**48**	2.0	0.060	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

AC05-B5-20.0

2E22003-02 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**9.0**	1.0	0.020	mg/kg	1	T2F0406	06/04/12	06/05/12	EPA 7196A	**HT2**
Metals - Totals										
Antimony	**3.7**	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Arsenic	**1.4**	2.0	0.22	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Barium	**29**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Beryllium	**1.6**	0.40	0.032	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cadmium	**0.088**	0.40	0.023	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Chromium	**16**	2.0	0.078	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cobalt	**4.8**	0.80	0.022	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Copper	**15**	2.0	0.069	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Lead	**3.4**	2.0	0.16	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Mercury	**0.84**	0.066	0.017	mg/kg	5	T2E2501	05/25/12	05/25/12	EPA 7471A	*
Molybdenum	**0.44**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Nickel	**5.3**	2.0	0.091	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Selenium	**1.7**	5.0	0.36	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Thallium	**0.54**	5.0	0.46	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Vanadium	**31**	2.5	0.38	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Zinc	**28**	2.0	0.060	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	

Notes and Definitions

NH	QC Criteria out of range due to non-homogeneous sample matrix.
MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS1	Recovery for this analyte was affected by matrix.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
HT2	This sample was analyzed past the EPA recommended holding time for this parameter due to late delivery of the sample to the laboratory.
*	Analysis added after hold time had expired.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F0406										
Blank (T2F0406-BLK1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2F0406-BS1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	9.49	1.0	mg/kg	10.0		94.9	80-120		20	
LCS Dup (T2F0406-BSD1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	11.1	1.0	mg/kg	10.0		111	80-120	16.0	20	
Matrix Spike (T2F0406-MS1)		**Source: 2E22004-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	192	1.0	mg/kg	9.89	164	282	80-120		20	MS1
Matrix Spike Dup (T2F0406-MSD1)		**Source: 2E22004-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	188	1.0	mg/kg	9.91	164	245	80-120	1.91	20	MS1

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121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2501										
Blank (T2E2501-BLK1)				Prepared & Analyzed: 05/25/12						
Mercury	0.00830	0.013	mg/kg							J
LCS (T2E2501-BS1)				Prepared & Analyzed: 05/25/12						
Mercury	0.325	0.013	mg/kg	0.333		97.4	70-130		20	
LCS Dup (T2E2501-BSD1)				Prepared & Analyzed: 05/25/12						
Mercury	0.331	0.013	mg/kg	0.333		99.2	70-130	1.75	20	
Matrix Spike (T2E2501-MS1)		**Source: 2E22003-02**		Prepared & Analyzed: 05/25/12						
Mercury	0.610	0.013	mg/kg	0.334	0.840	NR	70-130		20	NH
Matrix Spike Dup (T2E2501-MSD1)		**Source: 2E22003-02**		Prepared & Analyzed: 05/25/12						
Mercury	0.621	0.013	mg/kg	0.335	0.840	NR	70-130	1.82	20	NH
Batch T2E2506										
Blank (T2E2506-BLK1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Chromium	ND	2.0	mg/kg							
Lead	ND	2.0	mg/kg							
Nickel	ND	2.0	mg/kg							
Copper	ND	2.0	mg/kg							
Barium	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Selenium	0.462	5.0	mg/kg							J
Molybdenum	ND	2.0	mg/kg							
Silver	ND	2.0	mg/kg							
Cadmium	ND	0.40	mg/kg							
Zinc	0.0813	2.0	mg/kg							J
Arsenic	ND	2.0	mg/kg							
Thallium	ND	5.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Antimony	0.629	2.0	mg/kg							J
Beryllium	ND	0.40	mg/kg							
LCS (T2E2506-BS1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Molybdenum	18.6	2.0	mg/kg	20.0		92.8	75-125		20	
Copper	19.2	2.0	mg/kg	20.0		95.9	75-125		20	
Chromium	16.7	2.0	mg/kg	20.0		83.6	75-125		20	
Silver	18.0	2.0	mg/kg	20.0		89.8	75-125		20	
Beryllium	3.41	0.40	mg/kg	4.00		85.4	75-125		20	

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2506										
LCS (T2E2506-BS1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Nickel	16.0	2.0	mg/kg	20.0		80.2	75-125		20	
Barium	33.0	2.0	mg/kg	40.0		82.5	75-125		20	
Arsenic	34.3	2.0	mg/kg	40.0		85.7	75-125		20	
Antimony	17.6	2.0	mg/kg	20.0		87.8	75-125		20	
Cadmium	3.74	0.40	mg/kg	4.00		93.4	75-125		20	
Selenium	65.6	5.0	mg/kg	80.0		82.0	75-125		20	
Lead	18.7	2.0	mg/kg	20.0		93.4	70-130		20	
Vanadium	38.2	2.5	mg/kg	40.0		95.5	75-125		20	
Thallium	62.5	5.0	mg/kg	80.0		78.1	75-125		20	
Zinc	16.3	2.0	mg/kg	20.0		81.7	75-125		20	
Cobalt	7.63	0.80	mg/kg	8.00		95.4	75-125		20	
LCS Dup (T2E2506-BSD1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Lead	19.3	2.0	mg/kg	20.0		96.3	70-130	3.04	20	
Molybdenum	19.1	2.0	mg/kg	20.0		95.5	75-125	2.87	20	
Nickel	16.7	2.0	mg/kg	20.0		83.5	75-125	4.05	20	
Beryllium	3.58	0.40	mg/kg	4.00		89.5	75-125	4.75	20	
Chromium	17.4	2.0	mg/kg	20.0		87.0	75-125	4.02	20	
Selenium	67.9	5.0	mg/kg	80.0		84.9	75-125	3.50	20	
Cadmium	3.82	0.40	mg/kg	4.00		95.4	75-125	2.13	20	
Arsenic	35.5	2.0	mg/kg	40.0		88.8	75-125	3.58	20	
Antimony	18.0	2.0	mg/kg	20.0		90.1	75-125	2.52	20	
Vanadium	39.1	2.5	mg/kg	40.0		97.9	75-125	2.40	20	
Barium	34.2	2.0	mg/kg	40.0		85.5	75-125	3.49	20	
Zinc	17.1	2.0	mg/kg	20.0		85.7	75-125	4.86	20	
Thallium	65.3	5.0	mg/kg	80.0		81.6	75-125	4.34	20	
Silver	18.4	2.0	mg/kg	20.0		91.9	75-125	2.27	20	
Copper	19.6	2.0	mg/kg	20.0		97.8	75-125	1.96	20	
Cobalt	7.88	0.80	mg/kg	8.00		98.5	75-125	3.18	20	
Matrix Spike (T2E2506-MS1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Vanadium	39.4	2.5	mg/kg	39.7	2.88	91.9	75-125		20	
Antimony	14.6	2.0	mg/kg	19.9	0.571	70.5	75-125		20	MS3
Silver	16.3	2.0	mg/kg	19.9	0.140	81.2	75-125		20	
Arsenic	30.4	2.0	mg/kg	39.7	ND	76.5	75-125		20	
Selenium	59.2	5.0	mg/kg	79.4	0.796	73.5	75-125		20	MS3
Nickel	15.8	2.0	mg/kg	19.9	1.19	73.5	75-125		20	MS3

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC NB33772/3, Ref: 2C06003
Project Manager: Joseph Bahde

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2506										
Matrix Spike (T2E2506-MS1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Molybdenum	16.8	2.0	mg/kg	19.9	0.837	80.5	75-125		20	
Barium	59.6	2.0	mg/kg	39.7	32.9	67.1	75-125		20	MS3
Zinc	75.7	2.0	mg/kg	19.9	66.7	45.0	75-125		20	MS3
Copper	43.5	2.0	mg/kg	19.9	25.7	89.5	75-125		20	
Lead	17.6	2.0	mg/kg	19.9	1.10	82.9	70-130		20	
Thallium	58.3	5.0	mg/kg	79.4	ND	73.4	75-125		20	MS3
Cadmium	3.83	0.40	mg/kg	3.97	0.0852	94.4	75-125		20	
Chromium	16.5	2.0	mg/kg	19.9	1.74	74.5	75-125		20	MS3
Beryllium	2.99	0.40	mg/kg	3.97	ND	75.4	75-125		20	
Cobalt	6.68	0.80	mg/kg	7.94	0.133	82.4	75-125		20	
Matrix Spike Dup (T2E2506-MSD1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Zinc	84.9	2.0	mg/kg	20.0	66.7	90.9	75-125	11.5	20	
Vanadium	40.7	2.5	mg/kg	40.0	2.88	94.6	75-125	3.37	20	
Copper	45.1	2.0	mg/kg	20.0	25.7	97.1	75-125	3.72	20	
Chromium	18.1	2.0	mg/kg	20.0	1.74	81.6	75-125	8.78	20	
Thallium	63.9	5.0	mg/kg	80.0	ND	79.8	75-125	9.19	20	
Selenium	64.9	5.0	mg/kg	80.0	0.796	80.1	75-125	9.16	20	
Antimony	16.2	2.0	mg/kg	20.0	0.571	78.4	75-125	10.9	20	
Barium	66.7	2.0	mg/kg	40.0	32.9	84.5	75-125	11.3	20	
Nickel	17.4	2.0	mg/kg	20.0	1.19	81.1	75-125	9.79	20	
Cadmium	3.90	0.40	mg/kg	4.00	0.0852	95.3	75-125	1.64	20	
Arsenic	33.2	2.0	mg/kg	40.0	ND	83.0	75-125	8.89	20	
Lead	19.1	2.0	mg/kg	20.0	1.10	90.1	70-130	8.52	20	
Cobalt	7.49	0.80	mg/kg	8.00	0.133	91.9	75-125	11.4	20	
Beryllium	3.23	0.40	mg/kg	4.00	ND	80.8	75-125	7.72	20	
Molybdenum	18.6	2.0	mg/kg	20.0	0.837	88.9	75-125	10.2	20	
Silver	17.4	2.0	mg/kg	20.0	0.140	86.2	75-125	6.65	20	

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2C06003

NB33769

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 03/01/2012 PAGE 1 OF 5

PROJECT NUMBER: NB101607SA

RESULTS TO: Joseph Bande

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: FedEx

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julio Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	03/01/12	940	AC01-B1-1.0	X	X		4 oz jars	S		–	✓		2	
2		955	AC01-B2-1.0	X	X		4 oz jars	S		–	✓		2	
3		1030	AC01-B1-5.0	X	X		acetate liner	S		–	✓		1	
4		1035	AC01-B1-10.0	X	X			S		–	✓		1	
5		1045	AC01-B1-15.0	~~X~~ TN	~~X~~ TN	X		S		–	✓		1	
6		1050	AC01-B1-18.5			X		S		–	✓		1	
7		1235	AC01-B3-1.0	X	X		4 oz jars	S		–	✓		2	
8		1245	AC01-B2-5.0	X	X			S		–	✓		2	
9		1255	AC01a-B1-5.0	X	X		~~Acetate liner~~ 4 oz jar	S		–	✓		2	
10		1300	AC01-B2-10.0	X	X		Acetate liner	S		–	✓		1	
11		1310	AC01-B2-15.0	~~X~~ TN	~~X~~ TN	X		S		–	✓		1	
12		1315	AC01-~~B3~~ B4-1.0	X	X		4 oz jar	S		–	✓		2	
13		1330	AC01-B3-5.0	X	X		acetate liner	S		–	✓		1	
14		1335	AC01-B3-10.0	X	X		4 oz jar	S		–	✓		2	
15		1340	AC01a-B1-10.0	X	X			S		–	✓		2	

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS:

* CAM 17

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/01/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [illegible]		
COMPANY:			COMPANY: MTA		

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2C06 ~~004~~ 003

NB33771

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 03/01/2012 PAGE 2 OF 5

PROJECT NUMBER: NB1016075A

RESULTS TO: Joseph Brande

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julie Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
16	03/01/12	1545	AC01-B3-15.0	X	X		Acetate Liner	S		–	✓		1	
17	↓	1440	AC01-B4-5.0	X	X		↓	S		–	✓		1	
18	↓	1445	AC01-B4-10.0	X	X		↓	S		–	✓		1	
19	↓	1450	AC01-B4-15.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	
20	↓	1500	QCEB-030112	X			125mL HDPE	W		HNO_3	✓		1	
21	03/02/12	0755	AC05-B1-1.0	X	X		4oz jar	S		–	✓		2	
22	↓	0835	AC05-B1-5.0	X	X		Acetate Liner	S		–	✓		1	
23	↓	0840	AC05-B1-10.0	X	X		↓	S		–	✓		1	
24	↓	0845	AC05-B1-15.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	
25	↓	0850	AC05-B1-18.5			X	↓	S		–	✓		1	
26	↓	0910	AC05-B2-1.0	X	X		4oz jar	S		–	✓		2	
27	↓	0915	AC05a-B1-1.0	X	X		↓	S		–	✓		2	
28	↓	0955	AC05-B2-5.0	X	X		Acetate Liner	S		–	✓		1	
29	↓	1005	AC05-B2-10.0	X	X		↓	S		–	✓		1	
30	↓	1010	AC05-B2-14.0	~~X~~ TN	~~X~~ TN	X	↓	S		–	✓		1	

TOTAL NUMBER OF CONTAINERS: 18

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/09/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MW		

SAMPLING COMMENTS:

* See page 1

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CHAIN-OF-CUSTODY RECORD

ZC006 ~~025~~ 003

NB33772

PROJECT NAME: Crown City Plating Company			DATE: 03/02/2012 PAGE 3 OF 5
PROJECT NUMBER: NB1016075 A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bande	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: FedEx	LABORATORY CONTACT: Julie Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *				Hexavalent Chromium				Hold						CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
31	03/02/12	1045	ACO5-B3-1.0	X				X										4 oz jar	S		–	✓		2	
32	↓	1105	ACO5-B3-5.0	X				X										Acetate liner	S		–	✓		1	
33	↓	1110	ACO5-B3-10.0	X				X										↓	S		–	✓		1	
34	↓	1115	ACO5-B3-15.0	~~X~~	TN			~~X~~	TN			X						↓	S		–	✓		1	
35	↓	1120	ACO5-B3-20.0									X						↓	S		–	✓		1	
36	↓	1225	ACO5-B4-1.0	X				X										4 oz. jar	S		–	✓		2	
37	↓	1250	ACO5-B4-5.0	X				X										Acetate liner	S		–	✓		1	
38	↓	1255	ACO5-B4-10.0	X				X										↓	S		–	✓		1	
39	↓	1300	ACO5a-B1-15.0	~~X~~	TN			~~X~~	TN			X						4 oz jar	S		–	✓		2	
40	↓	1305	ACO5-B4-15.0	~~X~~	TN			~~X~~	TN			X						↓	S		–	✓		2	
41	↓	1305	ACO5-B4-20.0	~~X~~	TN							X						Acetate liner	S		–	✓		1	
42	↓	1310	ACO5-B5-1.0	X				X										4 oz jar	S		–	✓		2	
43	↓	1340	ACO5-B5-5.0	X				X										acetate liner	S		–	✓		1	
44	↓	1343	ACO5-B5-10.0	X				X										↓	S		–	✓		1	
45	↓	1345	ACO5-B5-15.0	~~X~~	TN			~~X~~	TN			X						↓	S		–	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/02/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MSA		

TOTAL NUMBER OF CONTAINERS: 20

SAMPLING COMMENTS:

* See page 1

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2C06 ~~006~~ 003

NB33773

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 03/02/2012 PAGE 4 OF 5

PROJECT NUMBER: NB101607SA

RESULTS TO: Joseph Bande

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Jake / Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
46	03/02/12	1345	AC05-BS-20.0			X	acetate liner	S		—	✓		1	
47	↓	1410	QCEB-030212	X			125mL HDPE	W		HNO3	✓		1	
48	03/05/12	815	AC05-BG-1.0	X	X		4oz jar	S		—	✓		2	
49		840	AC05-BG-5.0	X	X		Acetate liner	S		—	✓		1	
50		845	AC05-BG-10.0	X	X		↓	S		—	✓		1	
51		850	AC05-BG-15.0			X	↓	S		—	✓		1	
52		855	AC05-BG-20.0			X	↓	S		—	✓		1	
53		935	AC01-BS-1.0	X	X		4oz jar	S		—	✓		2	
54		1005	AC01-BS-5.0	X	X		Acetate liner	S		—	✓		1	
55		1010	AC01-BS-10.0	X	X		↓	S		—	✓		1	
56		1015	AC01-BS-15.0			X	↓	S		—	✓		1	
57		1235	AC01-BG-1.0	X	X		4oz jar	S		—	✓		2	
58		1300	AC01-BG-5.0	X	X		Acetate liner	S		—	✓		1	
59		1305	AC01-BG-10.0	X	X		4oz jar	S		—	✓		2	
60	↓	1310	AC01a-BG-10.0	X	X		↓	S		—	✓		2	

TOTAL NUMBER OF CONTAINERS: 20

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature] PRINTED NAME: Thet Naing COMPANY: AMEC	3/5/12	1800	SIGNATURE: PRINTED NAME: COMPANY:		
SIGNATURE: PRINTED NAME: COMPANY:			SIGNATURE: PRINTED NAME: COMPANY:		
SIGNATURE: PRINTED NAME: COMPANY:	03/06/12	0940	SIGNATURE: PRINTED NAME: [signature] COMPANY: MSA		

SAMPLING COMMENTS:

* See Page 1

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amec

CHAIN-OF-CUSTODY RECORD

2C06 ~~007~~ 003 NB33775

PROJECT NAME: Crown City Plating Company			DATE: 03/05/2012 PAGE 5 OF 5
PROJECT NUMBER: NB106075A	LABORATORY NAME: Moore Twining	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Joseph Bahde	LABORATORY ADDRESS:		
TURNAROUND TIME: Standard			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT: Julie Morales		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
61	03/05/12	1315	AC01-B6-15.0			X	Acetate liner	S		–	✓		1	
62		1345	AC13-B5-1.0	X	X		4 oz jar	S		–	✓		2	
63		1350	AC13-B5-5.0	X	X			S		–	✓		2	
64		1405	AC13-B5-10.0	X	X			S		–	✓		2	
65		1410	AC13-B4-1.0	X	X			S		–	✓		2	
66		1425	AC13-B2-1.0	X	X			S		–	✓		2	
67		1435	AC13-B4-5.0	X	X			S		–	✓		2	
68		1440	AC13-B4-10.0	X	X			S		–	✓		2	
69		1450	AC13-B2-5.0	X	X		Acetate liner	S		–	✓		1	
70		1455	AC13-B2-10.0	X	X			S		–	✓		1	
71		1510	AC13-B2-15.0	~~X~~ TW	~~X~~ TW	X		S		–	✓		1	
72		1515	AC13-B2-20.0			X		S		–	✓		1	
73		1530	QCEB-030512	X			125 mL HDPE	W		HNO3	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	3/5/12	1800	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/06/12	0840	SIGNATURE:		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MSI		

TOTAL NUMBER OF CONTAINERS: 120

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

2E22003

Julio Morales

From: Bahde, Joseph <Joseph.Bahde@amec.com>
Sent: Thursday, May 17, 2012 1:32 PM
To: Naing, Thet; Julio Morales
Subject: RE: additional soil sample analyses

Fyi, we do realize Cr6 is past hold time but still would like you to run it.

From: Naing, Thet
Sent: Thursday, May 17, 2012 12:16 PM
To: Julio Morales
Cc: Bahde, Joseph
Subject: additional soil sample analyses

Julio,
We want to analyze the following samples for metals (not including mercury) and hexavalent chromium. Those samples were submitted for Crown City Plating project and have been on hold. Some samples submitted together with those samples were analyzed and reported in MTA reports as indicated below.

Sample ID	Sample Date	Cr6	metals	AMEC COC	MTA Report
AC05-B5-15.0	3/2/2012	X	X	NB33772	2C06003-45
AC05-B5-20.0	3/2/2012	X	X	NB33773	2C06003-46
AC13-B1-13.0	3/6/2012	X	X	NB33779	2C07012-17

Please let me know if you have any questions.

Thank you.

Thet Naing
Project Hydrogeologist
AMEC
Environment and Infrastructure
121 Innovation, Suite 200
Irvine, CA 92617
Tel: 949-574-7631
thet.naing@amec.com

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MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

June 06, 2012

Work Order #: 2E22004

Thet Naing
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 05/22/12 . For your reference, these analyses have been assigned laboratory work order number 2E22004 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Julio Morales
Client Services Supervisor

MOORE TWINING ASSOCIATES, INC.

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Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC13-B1-13.0	2E22004-01	Soil	03/06/12 14:15	05/22/12 12:06

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121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

AC13-B1-13.0

2E22004-01 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**160**	1.0	0.020	mg/kg	1	T2F0406	06/04/12	06/05/12	EPA 7196A	**HT2**
Metals - Totals										
Antimony	**2.5**	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Arsenic	**2.6**	2.0	0.22	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Barium	**33**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Beryllium	**1.6**	0.40	0.032	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cadmium	**0.086**	0.40	0.023	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Chromium	**200**	2.0	0.078	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Cobalt	**6.1**	0.80	0.022	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Copper	**19**	2.0	0.069	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Lead	**4.2**	2.0	0.16	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Mercury	**0.36**	0.013	0.0034	mg/kg	1	T2E2501	05/25/12	05/25/12	EPA 7471A	*
Molybdenum	**0.57**	2.0	0.13	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Nickel	**8.6**	2.0	0.091	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Selenium	**2.1**	5.0	0.36	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Thallium	**0.93**	5.0	0.46	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	**J**
Vanadium	**32**	2.5	0.38	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	
Zinc	**48**	2.0	0.060	mg/kg	1	T2E2506	05/25/12	05/30/12	EPA 6010B	

Notes and Definitions

NH	QC Criteria out of range due to non-homogeneous sample matrix.
MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS1	Recovery for this analyte was affected by matrix.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
HT2	This sample was analyzed past the EPA recommended holding time for this parameter due to late delivery of the sample to the laboratory.
*	Analysis added after hold time had expired.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

MOORE TWINING ASSOCIATES, INC.

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F0406										
Blank (T2F0406-BLK1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2F0406-BS1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	9.49	1.0	mg/kg	10.0		94.9	80-120		20	
LCS Dup (T2F0406-BSD1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	11.1	1.0	mg/kg	10.0		111	80-120	16.0	20	
Matrix Spike (T2F0406-MS1)		**Source: 2E22004-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	192	1.0	mg/kg	9.89	164	282	80-120		20	MS1
Matrix Spike Dup (T2F0406-MSD1)		**Source: 2E22004-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Hexavalent Chromium	188	1.0	mg/kg	9.91	164	245	80-120	1.91	20	MS1

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Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2501										
Blank (T2E2501-BLK1)				Prepared & Analyzed: 05/25/12						
Mercury	0.00830	0.013	mg/kg							J
LCS (T2E2501-BS1)				Prepared & Analyzed: 05/25/12						
Mercury	0.325	0.013	mg/kg	0.333		97.4	70-130		20	
LCS Dup (T2E2501-BSD1)				Prepared & Analyzed: 05/25/12						
Mercury	0.331	0.013	mg/kg	0.333		99.2	70-130	1.75	20	
Matrix Spike (T2E2501-MS1)		**Source: 2E22003-02**		Prepared & Analyzed: 05/25/12						
Mercury	0.610	0.013	mg/kg	0.334	0.840	NR	70-130		20	NH
Matrix Spike Dup (T2E2501-MSD1)		**Source: 2E22003-02**		Prepared & Analyzed: 05/25/12						
Mercury	0.621	0.013	mg/kg	0.335	0.840	NR	70-130	1.82	20	NH
Batch T2E2506										
Blank (T2E2506-BLK1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Copper	ND	2.0	mg/kg							
Cobalt	ND	0.80	mg/kg							
Lead	ND	2.0	mg/kg							
Chromium	ND	2.0	mg/kg							
Vanadium	ND	2.5	mg/kg							
Nickel	ND	2.0	mg/kg							
Thallium	ND	5.0	mg/kg							
Selenium	0.462	5.0	mg/kg							J
Barium	ND	2.0	mg/kg							
Zinc	0.0813	2.0	mg/kg							J
Antimony	0.629	2.0	mg/kg							J
Arsenic	ND	2.0	mg/kg							
Silver	ND	2.0	mg/kg							
Beryllium	ND	0.40	mg/kg							
Molybdenum	ND	2.0	mg/kg							
Cadmium	ND	0.40	mg/kg							
LCS (T2E2506-BS1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Antimony	17.6	2.0	mg/kg	20.0		87.8	75-125		20	
Lead	18.7	2.0	mg/kg	20.0		93.4	70-130		20	
Barium	33.0	2.0	mg/kg	40.0		82.5	75-125		20	
Copper	19.2	2.0	mg/kg	20.0		95.9	75-125		20	
Beryllium	3.41	0.40	mg/kg	4.00		85.4	75-125		20	

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121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2506										
LCS (T2E2506-BS1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Chromium	16.7	2.0	mg/kg	20.0		83.6	75-125		20	
Molybdenum	18.6	2.0	mg/kg	20.0		92.8	75-125		20	
Cadmium	3.74	0.40	mg/kg	4.00		93.4	75-125		20	
Selenium	65.6	5.0	mg/kg	80.0		82.0	75-125		20	
Arsenic	34.3	2.0	mg/kg	40.0		85.7	75-125		20	
Vanadium	38.2	2.5	mg/kg	40.0		95.5	75-125		20	
Zinc	16.3	2.0	mg/kg	20.0		81.7	75-125		20	
Silver	18.0	2.0	mg/kg	20.0		89.8	75-125		20	
Nickel	16.0	2.0	mg/kg	20.0		80.2	75-125		20	
Thallium	62.5	5.0	mg/kg	80.0		78.1	75-125		20	
Cobalt	7.63	0.80	mg/kg	8.00		95.4	75-125		20	
LCS Dup (T2E2506-BSD1)				Prepared: 05/25/12 Analyzed: 05/29/12						
Nickel	16.7	2.0	mg/kg	20.0		83.5	75-125	4.05	20	
Cadmium	3.82	0.40	mg/kg	4.00		95.4	75-125	2.13	20	
Antimony	18.0	2.0	mg/kg	20.0		90.1	75-125	2.52	20	
Lead	19.3	2.0	mg/kg	20.0		96.3	70-130	3.04	20	
Arsenic	35.5	2.0	mg/kg	40.0		88.8	75-125	3.58	20	
Beryllium	3.58	0.40	mg/kg	4.00		89.5	75-125	4.75	20	
Thallium	65.3	5.0	mg/kg	80.0		81.6	75-125	4.34	20	
Cobalt	7.88	0.80	mg/kg	8.00		98.5	75-125	3.18	20	
Molybdenum	19.1	2.0	mg/kg	20.0		95.5	75-125	2.87	20	
Copper	19.6	2.0	mg/kg	20.0		97.8	75-125	1.96	20	
Chromium	17.4	2.0	mg/kg	20.0		87.0	75-125	4.02	20	
Barium	34.2	2.0	mg/kg	40.0		85.5	75-125	3.49	20	
Vanadium	39.1	2.5	mg/kg	40.0		97.9	75-125	2.40	20	
Zinc	17.1	2.0	mg/kg	20.0		85.7	75-125	4.86	20	
Selenium	67.9	5.0	mg/kg	80.0		84.9	75-125	3.50	20	
Silver	18.4	2.0	mg/kg	20.0		91.9	75-125	2.27	20	
Matrix Spike (T2E2506-MS1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Nickel	15.8	2.0	mg/kg	19.9	1.19	73.5	75-125		20	MS3
Selenium	59.2	5.0	mg/kg	79.4	0.796	73.5	75-125		20	MS3
Arsenic	30.4	2.0	mg/kg	39.7	ND	76.5	75-125		20	
Beryllium	2.99	0.40	mg/kg	3.97	ND	75.4	75-125		20	
Barium	59.6	2.0	mg/kg	39.7	32.9	67.1	75-125		20	MS3
Antimony	14.6	2.0	mg/kg	19.9	0.571	70.5	75-125		20	MS3

MOORE TWINING ASSOCIATES, INC.

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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: AMEC COC: NB33779, Ref: 2C07012
Project Manager: Thet Naing

Reported:
6/6/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2E2506										
Matrix Spike (T2E2506-MS1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Silver	16.3	2.0	mg/kg	19.9	0.140	81.2	75-125		20	
Cadmium	3.83	0.40	mg/kg	3.97	0.0852	94.4	75-125		20	
Chromium	16.5	2.0	mg/kg	19.9	1.74	74.5	75-125		20	MS3
Lead	17.6	2.0	mg/kg	19.9	1.10	82.9	70-130		20	
Copper	43.5	2.0	mg/kg	19.9	25.7	89.5	75-125		20	
Thallium	58.3	5.0	mg/kg	79.4	ND	73.4	75-125		20	MS3
Zinc	75.7	2.0	mg/kg	19.9	66.7	45.0	75-125		20	MS3
Vanadium	39.4	2.5	mg/kg	39.7	2.88	91.9	75-125		20	
Molybdenum	16.8	2.0	mg/kg	19.9	0.837	80.5	75-125		20	
Cobalt	6.68	0.80	mg/kg	7.94	0.133	82.4	75-125		20	
Matrix Spike Dup (T2E2506-MSD1)		**Source: 2E14013-01**		Prepared: 05/25/12 Analyzed: 05/30/12						
Antimony	16.2	2.0	mg/kg	20.0	0.571	78.4	75-125	10.9	20	
Thallium	63.9	5.0	mg/kg	80.0	ND	79.8	75-125	9.19	20	
Vanadium	40.7	2.5	mg/kg	40.0	2.88	94.6	75-125	3.37	20	
Selenium	64.9	5.0	mg/kg	80.0	0.796	80.1	75-125	9.16	20	
Arsenic	33.2	2.0	mg/kg	40.0	ND	83.0	75-125	8.89	20	
Barium	66.7	2.0	mg/kg	40.0	32.9	84.5	75-125	11.3	20	
Lead	19.1	2.0	mg/kg	20.0	1.10	90.1	70-130	8.52	20	
Cadmium	3.90	0.40	mg/kg	4.00	0.0852	95.3	75-125	1.64	20	
Chromium	18.1	2.0	mg/kg	20.0	1.74	81.6	75-125	8.78	20	
Cobalt	7.49	0.80	mg/kg	8.00	0.133	91.9	75-125	11.4	20	
Copper	45.1	2.0	mg/kg	20.0	25.7	97.1	75-125	3.72	20	
Zinc	84.9	2.0	mg/kg	20.0	66.7	90.9	75-125	11.5	20	
Molybdenum	18.6	2.0	mg/kg	20.0	0.837	88.9	75-125	10.2	20	
Nickel	17.4	2.0	mg/kg	20.0	1.19	81.1	75-125	9.79	20	
Silver	17.4	2.0	mg/kg	20.0	0.140	86.2	75-125	6.65	20	
Beryllium	3.23	0.40	mg/kg	4.00	ND	80.8	75-125	7.72	20	

2E22004

Julio Morales

From: Bahde, Joseph <Joseph.Bahde@amec.com>
Sent: Thursday, May 17, 2012 1:32 PM
To: Naing, Thet; Julio Morales
Subject: RE: additional soil sample analyses

Fyi, we do realize Cr6 is past hold time but still would like you to run it.

From: Naing, Thet
Sent: Thursday, May 17, 2012 12:16 PM
To: Julio Morales
Cc: Bahde, Joseph
Subject: additional soil sample analyses

Julio,
We want to analyze the following samples for metals (not including mercury) and hexavalent chromium. Those samples were submitted for Crown City Plating project and have been on hold. Some samples submitted together with those samples were analyzed and reported in MTA reports as indicated below.

Sample ID	Sample Date	Cr6	metals	AMEC COC	MTA Report
AC05-B5-15.0	3/2/2012	X	X	NB33772	2C06003 - 45
AC05-B5-20.0	3/2/2012	X	X	NB33773	2C06003 - 46
AC13-B1-13.0	3/6/2012	X	X	NB33779	2C07012 - 17

Please let me know if you have any questions.

Thank you.

Thet Naing
Project Hydrogeologist
AMEC
Environment and Infrastructure
121 Innovation, Suite 200
Irvine, CA 92617
Tel: 949-574-7631
thet.naing@amec.com

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2C07012

NB33778

CHAIN-OF-CUSTODY RECORD

DATE: 03-06-2012 PAGE 1 OF 2

PROJECT NAME: Crown City Plating Company

PROJECT NUMBER: NB101600 75A

RESULTS TO: Joseph Balade

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julio Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	03/06/12	840	AC13-B3-1.0	X	X		4oz jar	S		–	✓		2	
2		845	AC13a-B1-1.0	X	X			S		–	✓		2	
3		850	AC13-B3-5.0	X	X			S		–	✓		2	
4		900	AC13-B1-1.0	X	X			S		–	✓		2	
5		940	AC13-B3-10.0	X	X		Acetate liner	S		–	✓		1	
6		1100	AC13-B6-1.0	X	X		4oz jar	S		–	✓		2	
7		1210	AC13-B6-5.0	X	X		Acetate liner	S		–	✓		1	
8		1220	AC13-B6-10.0	X	X			S		–	✓		1	
9		1225	AC13-B6-13.5			X		S		–	✓		1	
10		1230	AC13-B7-1.0	X	X		4oz jar	S		–	✓		2	
11		1300	AC13-B7-5.0	X	X			S		–	✓		2	
12		1305	AC13a-B1-5.0	X	X			S		–	✓		2	
13		1310	AC13-B7-10.0	X	X		Acetate liner	S		–	✓		1	
14		1345	AC13-B1-5.0	X	X		4oz jar	S		–	✓		2	
15		1400	AC13-B1-10.0	X	X			S		–	✓		2	
							TOTAL NUMBER OF CONTAINERS:						25	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/06/12	17:00	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/12/12	1020	SIGNATURE: [signature]		
PRINTED NAME:			PRINTED NAME: Steve Lynch		
COMPANY:			COMPANY: MTW		

SAMPLING COMMENTS:

* CAM17

3°C

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

2C07012

NB33779

CHAIN-OF-CUSTODY RECORD

DATE: 03/06/2012 PAGE 2 OF 2

PROJECT NAME: Crown City Plating Company

PROJECT NUMBER: NB1016075 A

RESULTS TO: Joseph Babde

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julio Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	Metals *	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
15	03/06/12	1400	QCEB-030612	X			125mL HDPE	W		HNO_3	✓		1	
17	↓	1415	AC13-B1-13.0	~~X~~		X	4 oz jar	S		—	✓		2	

TOTAL NUMBER OF CONTAINERS: 3

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	03/06/12	17:00	SIGNATURE:		
PRINTED NAME: Tiet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:	03/07/12	1020	SIGNATURE: [signature]		
PRINTED NAME:			PRINTED NAME: [signature]		
COMPANY:			COMPANY: MTA		

SAMPLING COMMENTS:

*See Page 1

3°C

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amec

MOORE TWINING ASSOCIATES, INC.

California ELAP Certificate # 1371

2527 Fresno Street
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(559) 268-7021 Phone
(559) 268-0740 Fax

July 11, 2012

Work Order #: 2F20006

Thet Naing
AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine, CA 92617

RE: Crown City Plating Company

Enclosed are the analytical results for samples received by our laboratory on 06/20/12 . For your reference, these analyses have been assigned laboratory work order number 2F20006 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

Liz Rutherford
Client Services Assistant

MOORE TWINING ASSOCIATES, INC.

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(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AC13-B9-4.0	2F20006-01	Soil	06/19/12 08:45	06/20/12 10:30
AC13-B9-6.0	2F20006-02	Soil	06/19/12 08:49	06/20/12 10:30
AC13-B9-10.0	2F20006-03	Soil	06/19/12 08:52	06/20/12 10:30
AC13-B9-15.0	2F20006-04	Soil	06/19/12 08:57	06/20/12 10:30
AC13-B9-20.0	2F20006-05	Soil	06/19/12 09:00	06/20/12 10:30
AC13-B8-4.0	2F20006-10	Soil	06/19/12 09:36	06/20/12 10:30
AC13-B8-6.0	2F20006-11	Soil	06/19/12 09:38	06/20/12 10:30
AC13-B8-10.0	2F20006-12	Soil	06/19/12 09:40	06/20/12 10:30
AC13-A8-10.0	2F20006-13	Soil	06/19/12 09:42	06/20/12 10:30
AC13-B8-15.0	2F20006-14	Soil	06/19/12 09:44	06/20/12 10:30
AC13-B8-20.0	2F20006-15	Soil	06/19/12 09:47	06/20/12 10:30
SW8A-0.5	2F20006-19	Soil	06/19/12 11:00	06/20/12 10:30
SW8D-2.0	2F20006-22	Soil	06/19/12 11:10	06/20/12 10:30
SW8-2.0	2F20006-23	Soil	06/19/12 11:15	06/20/12 10:30
SW8-5.0	2F20006-24	Soil	06/19/12 11:20	06/20/12 10:30
SW8B-0.5	2F20006-25	Soil	06/19/12 11:30	06/20/12 10:30
SW4B-0.5	2F20006-28	Soil	06/19/12 11:48	06/20/12 10:30
SW4-2.0	2F20006-31	Soil	06/19/12 12:05	06/20/12 10:30
SW4-5.0	2F20006-32	Soil	06/19/12 12:07	06/20/12 10:30
SW4A-0.5	2F20006-33	Soil	06/19/12 12:20	06/20/12 10:30
QCEB-061912	2F20006-36	Water	06/19/12 13:50	06/20/12 10:30

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AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B9-4.0

2F20006-01 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**5.1**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**6.3**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**3.2**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**73**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**2.7**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.044**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**21**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**11**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**36**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**14**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.088**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.81**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**14**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.7**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.0**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**48**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**60**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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California ELAP Certificate # 1371

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B9-6.0

2F20006-02 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.1**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.9**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**4.0**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**90**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.076**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**27**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**13**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**48**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**7.1**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.096**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.84**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**17**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.7**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.9**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**63**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**65**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B9-10.0

2F20006-03 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**0.46**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	**J**
Metals - Totals										
Antimony	**5.5**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**2.3**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**56**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**2.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.025**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**17**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**9.7**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**26**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**4.8**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.11**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.65**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**10**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.3**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**2.6**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**46**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**46**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B9-15.0

2F20006-04 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**3.1**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**3.4**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**1.1**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Barium	**31**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**1.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	ND	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**11**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**5.3**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**18**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**3.0**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.21**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.46**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**5.1**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.3**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**1.3**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**26**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**28**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B9-20.0

2F20006-05 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.7**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**3.1**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**1.5**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Barium	**21**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**1.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	ND	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**9.8**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**4.5**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**15**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**3.1**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.41**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.70**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**3.8**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.1**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**1.5**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**26**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**23**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B8-4.0

2F20006-10 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.2**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.3**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**5.0**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**79**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.0**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.17**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**27**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**12**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**46**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**10**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.086**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.88**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**17**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.1**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.8**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**55**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**69**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B8-6.0

2F20006-11 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**5.7**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.7**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**4.4**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**84**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.2**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.11**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**29**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**13**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**45**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**6.7**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.099**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.74**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**15**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.7**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.6**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**60**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**63**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B8-10.0

2F20006-12 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.0**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**5.5**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**2.5**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**55**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**2.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.059**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**20**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**9.8**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**27**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**4.8**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.12**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.60**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**10**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.8**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**2.2**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**46**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**47**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
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Reported:
7/11/12

AC13-A8-10.0

2F20006-13 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.8**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**5.4**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**2.8**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**51**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**2.3**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	ND	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**19**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**9.4**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**25**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**4.6**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.21**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.62**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**9.7**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.5**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**2.6**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**43**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**44**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B8-15.0

2F20006-14 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**2.8**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**3.1**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**1.3**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Barium	**27**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**1.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	ND	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**9.2**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**5.3**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**16**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**3.2**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.31**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.47**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**4.8**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**0.80**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**1.5**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**26**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**29**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

AC13-B8-20.0

2F20006-15 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**2.2**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**2.4**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**0.80**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Barium	**21**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**0.97**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	ND	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**10**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**3.7**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**11**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**2.5**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.17**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.39**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**2.9**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.1**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**1.1**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**21**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**17**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW8A-0.5

2F20006-19 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**4.9**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.3**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**5.2**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**85**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.1**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.38**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**72**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**12**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**120**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**170**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.12**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**1.1**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**110**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.9**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.5**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**55**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**140**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW8D-2.0

2F20006-22 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**95**	10	0.20	mg/kg	10	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.5**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**7.4**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**100**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.97**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**230**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**14**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**190**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**680**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.13**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**1.2**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**270**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.5**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.7**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**59**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**200**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW8-2.0

2F20006-23 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**49**	10	0.20	mg/kg	10	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.5**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**9.5**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**120**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.2**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**1.2**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**770**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**14**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**220**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**3300**	10	0.78	mg/kg	5	T2F2019	06/20/12	06/28/12	EPA 6010B	
Mercury	**0.14**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**1.3**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**650**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.0**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.7**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**57**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**260**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW8-5.0

2F20006-24 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**5.5**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**8.0**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**4.3**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**87**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.4**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.11**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**26**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**14**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**48**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**7.3**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.15**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.87**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**16**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**2.3**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.5**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**61**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**63**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW8B-0.5

2F20006-25 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**5.8**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**8.6**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**7.4**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**97**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.6**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**1.5**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Chromium	**78**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**15**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**130**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**56**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.15**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**1.0**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**170**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.9**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.6**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**65**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**180**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW4B-0.5

2F20006-28 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Antimony	**8.6**	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Arsenic	**3.9**	2.0	0.22	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Barium	**100**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Beryllium	**3.7**	0.40	0.032	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cadmium	**0.19**	0.40	0.023	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Chromium	**30**	2.0	0.078	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Cobalt	**14**	0.80	0.022	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Copper	**46**	2.0	0.069	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Lead	**12**	2.0	0.16	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Mercury	**0.12**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.91**	2.0	0.13	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Nickel	**28**	2.0	0.091	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Selenium	**1.9**	5.0	0.36	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Thallium	**3.6**	5.0	0.46	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	**J**
Vanadium	**66**	2.5	0.38	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	
Zinc	**80**	2.0	0.060	mg/kg	1	T2F2019	06/20/12	06/25/12	EPA 6010B	

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Project Number: Crown City Plating Company
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Reported:
7/11/12

SW4-2.0

2F20006-31 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**6.1**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**8.2**	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Arsenic	**4.0**	2.0	0.22	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Barium	**80**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Beryllium	**3.4**	0.40	0.032	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cadmium	**0.18**	0.40	0.023	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Chromium	**26**	2.0	0.078	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cobalt	**13**	0.80	0.022	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Copper	**44**	2.0	0.069	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Lead	**6.7**	2.0	0.16	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Mercury	**0.10**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.93**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Nickel	**16**	2.0	0.091	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Selenium	**1.8**	5.0	0.36	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Thallium	**3.3**	5.0	0.46	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Vanadium	**60**	2.5	0.38	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Zinc	**63**	2.0	0.060	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW4-5.0

2F20006-32 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**6.2**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**8.1**	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Arsenic	**4.5**	2.0	0.22	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Barium	**77**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Beryllium	**3.3**	0.40	0.032	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cadmium	**0.16**	0.40	0.023	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Chromium	**25**	2.0	0.078	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cobalt	**12**	0.80	0.022	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Copper	**44**	2.0	0.069	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Lead	**6.3**	2.0	0.16	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Mercury	**0.13**	0.013	0.0034	mg/kg	1	T2F2012	06/21/12	06/21/12	EPA 7471A	
Molybdenum	**0.76**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Nickel	**15**	2.0	0.091	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Selenium	**1.6**	5.0	0.36	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Thallium	**3.5**	5.0	0.46	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Vanadium	**61**	2.5	0.38	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Zinc	**62**	2.0	0.060	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

SW4A-0.5

2F20006-33 (Soil)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Inorganics										
Hexavalent Chromium	**7.6**	1.0	0.020	mg/kg	1	T2F2513	06/25/12	06/30/12	EPA 7196A	
Metals - Totals										
Antimony	**7.9**	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Arsenic	**3.8**	2.0	0.22	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Barium	**80**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Beryllium	**3.3**	0.40	0.032	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cadmium	**0.15**	0.40	0.023	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Chromium	**26**	2.0	0.078	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Cobalt	**13**	0.80	0.022	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Copper	**44**	2.0	0.069	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Lead	**6.4**	2.0	0.16	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Mercury	**0.070**	0.013	0.0034	mg/kg	1	T2F2901	07/02/12	07/02/12	EPA 7471A	
Molybdenum	**0.87**	2.0	0.13	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Nickel	**16**	2.0	0.091	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Selenium	**1.8**	5.0	0.36	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Silver	ND	2.0	0.10	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Thallium	**3.4**	5.0	0.46	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	**J**
Vanadium	**57**	2.5	0.38	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	
Zinc	**63**	2.0	0.060	mg/kg	1	T2F2208	06/22/12	06/25/12	EPA 6010B	

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

QCEB-061912

2F20006-36 (Water)

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Metals - Totals										
Antimony	ND	0.0050	0.0015	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Arsenic	ND	0.010	0.0022	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Barium	ND	0.010	0.00078	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Beryllium	ND	0.0010	0.000072	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Cadmium	ND	0.0010	0.00018	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Chromium	ND	0.0050	0.00065	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Cobalt	ND	0.0020	0.00037	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Copper	ND	0.0050	0.00060	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Lead	ND	0.0050	0.00078	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Mercury	ND	0.20	0.062	µg/L	1	T2F2608	06/27/12	06/27/12	EPA 7470A	
Molybdenum	ND	0.0050	0.00050	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Nickel	ND	0.0050	0.00072	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Selenium	ND	0.020	0.0025	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Silver	ND	0.0050	0.00066	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	
Thallium	**0.0061**	0.020	0.0043	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	**J**
Vanadium	**0.00015**	0.010	0.00012	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	**J**
Zinc	**0.00091**	0.0050	0.00058	mg/L	1	T2F2211	06/22/12	06/25/12	EPA 6010B	**J**

Notes and Definitions

MS3	Recovery for this analyte was biased low; associated blank spike recoveries are within range.
MS2	Recovery for this analyte was biased high; associated blank spike recoveries are within range.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
ND	Analyte NOT DETECTED at or above the Method Detection Limit (MDL)
NR	Not Reported
RPD	Relative Percent Difference
MDL	Method Detection Limit

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Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

Inorganics - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2513										
Blank (T2F2513-BLK1)				Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	ND	1.0	mg/kg							
LCS (T2F2513-BS1)				Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	10.8	1.0	mg/kg	10.0		108	80-120		20	
LCS Dup (T2F2513-BSD1)				Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	10.6	1.0	mg/kg	10.0		106	80-120	1.30	20	
Matrix Spike (T2F2513-MS1)		**Source: 2F20006-01**		Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	4.12	1.0	mg/kg	10.1	5.09	NR	80-120		20	MS3
Matrix Spike (T2F2513-MS2)		**Source: 2F20006-15**		Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	2.14	1.0	mg/kg	10.1	2.24	NR	80-120		20	MS3
Matrix Spike Dup (T2F2513-MSD1)		**Source: 2F20006-01**		Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	4.81	1.0	mg/kg	10.1	5.09	NR	80-120	15.5	20	MS3
Matrix Spike Dup (T2F2513-MSD2)		**Source: 2F20006-15**		Prepared: 06/25/12 Analyzed: 06/30/12						
Hexavalent Chromium	285	1.0	mg/kg	10.1	2.24	NR	80-120	197	20	MS3

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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2012										
Blank (T2F2012-BLK1)				Prepared & Analyzed: 06/21/12						
Mercury	ND	0.013	mg/kg							
LCS (T2F2012-BS1)				Prepared & Analyzed: 06/21/12						
Mercury	0.328	0.013	mg/kg	0.333		98.3	70-130		20	
LCS Dup (T2F2012-BSD1)				Prepared & Analyzed: 06/21/12						
Mercury	0.334	0.013	mg/kg	0.333		100	70-130	1.89	20	
Matrix Spike (T2F2012-MS1)		**Source: 2F19015-01**		Prepared & Analyzed: 06/21/12						
Mercury	0.444	0.013	mg/kg	0.336	0.117	97.5	70-130		20	
Matrix Spike (T2F2012-MS2)		**Source: 2F20006-05**		Prepared & Analyzed: 06/21/12						
Mercury	0.760	0.026	mg/kg	0.331	0.407	106	70-130		20	
Matrix Spike Dup (T2F2012-MSD1)		**Source: 2F19015-01**		Prepared & Analyzed: 06/21/12						
Mercury	0.448	0.013	mg/kg	0.335	0.117	99.0	70-130	0.990	20	
Matrix Spike Dup (T2F2012-MSD2)		**Source: 2F20006-05**		Prepared & Analyzed: 06/21/12						
Mercury	0.983	0.053	mg/kg	0.331	0.407	174	70-130	25.6	20	MS2
Batch T2F2019										
Blank (T2F2019-BLK1)				Prepared: 06/20/12 Analyzed: 06/25/12						
Nickel	ND	0.020	mg/kg							
Arsenic	ND	0.020	mg/kg							
Copper	ND	0.020	mg/kg							
Antimony	0.00588	0.020	mg/kg							J
Selenium	ND	0.050	mg/kg							
Thallium	ND	0.050	mg/kg							
Vanadium	ND	0.025	mg/kg							
Chromium	0.00166	0.020	mg/kg							J
Cadmium	ND	0.0040	mg/kg							
Lead	ND	0.020	mg/kg							
Barium	ND	0.020	mg/kg							
Cobalt	ND	0.0080	mg/kg							
Beryllium	ND	0.0040	mg/kg							
Silver	ND	0.020	mg/kg							
Molybdenum	ND	0.020	mg/kg							
Zinc	0.00229	0.020	mg/kg							J
LCS (T2F2019-BS1)				Prepared: 06/20/12 Analyzed: 06/25/12						
Nickel	0.194	0.020	mg/kg	0.200		97.1	75-125		20	

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Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2019										
LCS (T2F2019-BS1)				Prepared: 06/20/12 Analyzed: 06/25/12						
Zinc	0.197	0.020	mg/kg	0.200		98.7	75-125		20	
Molybdenum	0.216	0.020	mg/kg	0.200		108	75-125		20	
Copper	0.225	0.020	mg/kg	0.200		113	75-125		20	
Silver	0.212	0.020	mg/kg	0.200		106	75-125		20	
Selenium	0.801	0.050	mg/kg	0.800		100	75-125		20	
Thallium	0.731	0.050	mg/kg	0.800		91.3	75-125		20	
Lead	0.216	0.020	mg/kg	0.200		108	70-130		20	
Antimony	0.207	0.020	mg/kg	0.200		103	75-125		20	
Chromium	0.205	0.020	mg/kg	0.200		103	75-125		20	
Cobalt	0.0940	0.0080	mg/kg	0.0800		118	75-125		20	
Beryllium	0.0385	0.0040	mg/kg	0.0400		96.3	75-125		20	
Arsenic	0.408	0.020	mg/kg	0.400		102	75-125		20	
Cadmium	0.0430	0.0040	mg/kg	0.0400		108	75-125		20	
Vanadium	0.417	0.025	mg/kg	0.400		104	75-125		20	
Barium	0.388	0.020	mg/kg	0.400		97.1	75-125		20	
LCS Dup (T2F2019-BSD1)				Prepared: 06/20/12 Analyzed: 06/25/12						
Molybdenum	0.219	0.020	mg/kg	0.200		110	75-125	1.60	20	
Beryllium	0.0396	0.0040	mg/kg	0.0400		98.9	75-125	2.71	20	
Silver	0.213	0.020	mg/kg	0.200		107	75-125	0.847	20	
Zinc	0.200	0.020	mg/kg	0.200		99.8	75-125	1.11	20	
Arsenic	0.418	0.020	mg/kg	0.400		105	75-125	2.56	20	
Nickel	0.197	0.020	mg/kg	0.200		98.4	75-125	1.36	20	
Selenium	0.818	0.050	mg/kg	0.800		102	75-125	2.10	20	
Barium	0.392	0.020	mg/kg	0.400		97.9	75-125	0.890	20	
Antimony	0.208	0.020	mg/kg	0.200		104	75-125	0.275	20	
Cadmium	0.0437	0.0040	mg/kg	0.0400		109	75-125	1.46	20	
Chromium	0.205	0.020	mg/kg	0.200		103	75-125	0.0294	20	
Thallium	0.746	0.050	mg/kg	0.800		93.3	75-125	2.10	20	
Lead	0.219	0.020	mg/kg	0.200		109	70-130	1.28	20	
Cobalt	0.0959	0.0080	mg/kg	0.0800		120	75-125	1.94	20	
Vanadium	0.418	0.025	mg/kg	0.400		104	75-125	0.289	20	
Copper	0.228	0.020	mg/kg	0.200		114	75-125	1.09	20	
Matrix Spike (T2F2019-MS1)		**Source: 2F19015-01**		Prepared: 06/20/12 Analyzed: 06/25/12						
Arsenic	45.5	2.0	mg/kg	39.8	6.43	98.2	75-125		20	
Selenium	75.3	5.0	mg/kg	79.5	0.859	93.6	75-125		20	

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Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2019										
Matrix Spike (T2F2019-MS1)		**Source: 2F19015-01**		Prepared: 06/20/12 Analyzed: 06/25/12						
Nickel	97.8	2.0	mg/kg	19.9	78.9	95.4	75-125		20	
Cobalt	22.7	0.80	mg/kg	7.95	16.5	77.4	75-125		20	
Copper	56.7	2.0	mg/kg	19.9	33.8	115	75-125		20	
Cadmium	3.62	0.40	mg/kg	3.98	0.431	80.2	75-125		20	
Molybdenum	17.2	2.0	mg/kg	19.9	1.17	80.6	75-125		20	
Antimony	8.71	2.0	mg/kg	19.9	1.40	36.7	75-125		20	MS3
Chromium	69.2	2.0	mg/kg	19.9	68.4	4.26	75-125		20	MS3
Beryllium	3.90	0.40	mg/kg	3.98	0.550	84.2	75-125		20	
Lead	22.3	2.0	mg/kg	19.9	6.66	78.7	70-130		20	
Barium	191	2.0	mg/kg	39.8	154	93.5	75-125		20	
Zinc	86.3	2.0	mg/kg	19.9	75.4	54.5	75-125		20	MS3
Thallium	67.8	5.0	mg/kg	79.5	3.28	81.1	75-125		20	
Silver	19.7	2.0	mg/kg	19.9	ND	99.2	75-125		20	
Vanadium	89.5	2.5	mg/kg	39.8	47.8	105	75-125		20	
Matrix Spike (T2F2019-MS2)		**Source: 2F20006-12**		Prepared: 06/20/12 Analyzed: 06/25/12						
Lead	23.2	2.0	mg/kg	20.0	4.77	92.4	70-130		20	
Molybdenum	18.9	2.0	mg/kg	20.0	0.602	91.6	75-125		20	
Silver	18.2	2.0	mg/kg	20.0	ND	91.0	75-125		20	
Barium	86.4	2.0	mg/kg	39.9	55.0	78.7	75-125		20	
Beryllium	5.60	0.40	mg/kg	3.99	2.41	79.9	75-125		20	
Cadmium	3.46	0.40	mg/kg	3.99	0.0590	85.1	75-125		20	
Chromium	37.5	2.0	mg/kg	20.0	20.5	85.4	75-125		20	
Zinc	63.2	2.0	mg/kg	20.0	46.9	81.5	75-125		20	
Nickel	26.7	2.0	mg/kg	20.0	10.2	82.9	75-125		20	
Cobalt	16.0	0.80	mg/kg	7.98	9.85	77.7	75-125		20	
Antimony	11.0	2.0	mg/kg	20.0	5.52	27.4	75-125		20	MS3
Selenium	72.0	5.0	mg/kg	79.8	1.76	88.0	75-125		20	
Arsenic	39.4	2.0	mg/kg	39.9	2.55	92.3	75-125		20	
Copper	48.0	2.0	mg/kg	20.0	26.7	107	75-125		20	
Vanadium	82.6	2.5	mg/kg	39.9	45.6	92.7	75-125		20	
Thallium	68.9	5.0	mg/kg	79.8	2.24	83.4	75-125		20	
Matrix Spike Dup (T2F2019-MSD1)		**Source: 2F19015-01**		Prepared: 06/20/12 Analyzed: 06/25/12						
Beryllium	3.97	0.40	mg/kg	3.97	0.550	86.2	75-125	1.89	20	
Copper	56.1	2.0	mg/kg	19.8	33.8	112	75-125	1.11	20	
Cobalt	23.4	0.80	mg/kg	7.94	16.5	86.9	75-125	3.20	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2019										
Matrix Spike Dup (T2F2019-MSD1)		**Source: 2F19015-01**		Prepared: 06/20/12 Analyzed: 06/25/12						
Molybdenum	17.8	2.0	mg/kg	19.8	1.17	83.9	75-125	3.58	20	
Chromium	80.3	2.0	mg/kg	19.8	68.4	60.1	75-125	14.8	20	MS3
Thallium	69.0	5.0	mg/kg	79.4	3.28	82.8	75-125	1.85	20	
Cadmium	3.68	0.40	mg/kg	3.97	0.431	81.9	75-125	1.71	20	
Lead	23.8	2.0	mg/kg	19.8	6.66	86.6	70-130	6.63	20	
Vanadium	91.7	2.5	mg/kg	39.7	47.8	110	75-125	2.39	20	
Silver	19.6	2.0	mg/kg	19.8	ND	99.0	75-125	0.423	20	
Selenium	74.6	5.0	mg/kg	79.4	0.859	92.9	75-125	0.881	20	
Arsenic	44.7	2.0	mg/kg	39.7	6.43	96.4	75-125	1.80	20	
Nickel	87.8	2.0	mg/kg	19.8	78.9	45.1	75-125	10.8	20	MS3
Barium	207	2.0	mg/kg	39.7	154	135	75-125	8.20	20	MS2
Antimony	8.18	2.0	mg/kg	19.8	1.40	34.2	75-125	6.19	20	MS3
Zinc	84.8	2.0	mg/kg	19.8	75.4	47.1	75-125	1.75	20	MS3
Matrix Spike Dup (T2F2019-MSD2)		**Source: 2F20006-12**		Prepared: 06/20/12 Analyzed: 06/25/12						
Silver	18.1	2.0	mg/kg	20.1	ND	90.2	75-125	0.245	20	
Lead	22.7	2.0	mg/kg	20.1	4.77	89.6	70-130	2.00	20	
Cobalt	15.5	0.80	mg/kg	8.03	9.85	71.0	75-125	3.17	20	MS3
Nickel	26.0	2.0	mg/kg	20.1	10.2	78.6	75-125	2.86	20	
Arsenic	40.3	2.0	mg/kg	40.2	2.55	94.0	75-125	2.28	20	
Cadmium	3.41	0.40	mg/kg	4.02	0.0590	83.5	75-125	1.28	20	
Vanadium	79.3	2.5	mg/kg	40.2	45.6	84.0	75-125	4.05	20	
Thallium	69.7	5.0	mg/kg	80.3	2.24	84.0	75-125	1.27	20	
Chromium	36.0	2.0	mg/kg	20.1	20.5	77.3	75-125	4.14	20	
Selenium	72.4	5.0	mg/kg	80.3	1.76	87.9	75-125	0.542	20	
Zinc	60.4	2.0	mg/kg	20.1	46.9	67.2	75-125	4.47	20	MS3
Beryllium	5.58	0.40	mg/kg	4.02	2.41	79.0	75-125	0.336	20	
Antimony	10.6	2.0	mg/kg	20.1	5.52	25.5	75-125	3.23	20	MS3
Barium	83.9	2.0	mg/kg	40.2	55.0	72.0	75-125	2.91	20	MS3
Molybdenum	18.7	2.0	mg/kg	20.1	0.602	90.0	75-125	1.17	20	
Copper	45.5	2.0	mg/kg	20.1	26.7	93.7	75-125	5.38	20	
Batch T2F2208										
Blank (T2F2208-BLK1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Chromium	ND	0.020	mg/kg							
Lead	ND	0.020	mg/kg							

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Reported:
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Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2208										
Blank (T2F2208-BLK1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Barium	ND	0.020	mg/kg							
Zinc	0.000767	0.020	mg/kg							J
Arsenic	ND	0.020	mg/kg							
Copper	ND	0.020	mg/kg							
Beryllium	ND	0.0040	mg/kg							
Silver	ND	0.020	mg/kg							
Vanadium	ND	0.025	mg/kg							
Cadmium	ND	0.0040	mg/kg							
Molybdenum	ND	0.020	mg/kg							
Antimony	0.00489	0.020	mg/kg							J
Selenium	ND	0.050	mg/kg							
Nickel	ND	0.020	mg/kg							
Thallium	ND	0.050	mg/kg							
Cobalt	ND	0.0080	mg/kg							
LCS (T2F2208-BS1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Antimony	0.206	0.020	mg/kg	0.200		103	75-125		20	
Thallium	0.726	0.050	mg/kg	0.800		90.8	75-125		20	
Selenium	0.787	0.050	mg/kg	0.800		98.3	75-125		20	
Copper	0.221	0.020	mg/kg	0.200		111	75-125		20	
Cadmium	0.0429	0.0040	mg/kg	0.0400		107	75-125		20	
Silver	0.207	0.020	mg/kg	0.200		103	75-125		20	
Zinc	0.194	0.020	mg/kg	0.200		97.0	75-125		20	
Molybdenum	0.211	0.020	mg/kg	0.200		106	75-125		20	
Beryllium	0.0393	0.0040	mg/kg	0.0400		98.4	75-125		20	
Barium	0.380	0.020	mg/kg	0.400		95.1	75-125		20	
Cobalt	0.0916	0.0080	mg/kg	0.0800		115	75-125		20	
Chromium	0.198	0.020	mg/kg	0.200		99.2	75-125		20	
Arsenic	0.409	0.020	mg/kg	0.400		102	75-125		20	
Lead	0.213	0.020	mg/kg	0.200		107	70-130		20	
Vanadium	0.407	0.025	mg/kg	0.400		102	75-125		20	
Nickel	0.190	0.020	mg/kg	0.200		95.1	75-125		20	
LCS Dup (T2F2208-BSD1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Cadmium	0.0420	0.0040	mg/kg	0.0400		105	75-125	2.25	20	
Chromium	0.194	0.020	mg/kg	0.200		97.1	75-125	2.10	20	
Vanadium	0.403	0.025	mg/kg	0.400		101	75-125	0.862	20	

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(559) 268-0740 Fax

California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2208										
LCS Dup (T2F2208-BSD1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Zinc	0.190	0.020	mg/kg	0.200		95.2	75-125	1.92	20	
Beryllium	0.0392	0.0040	mg/kg	0.0400		98.1	75-125	0.307	20	
Barium	0.375	0.020	mg/kg	0.400		93.8	75-125	1.35	20	
Antimony	0.202	0.020	mg/kg	0.200		101	75-125	1.78	20	
Arsenic	0.404	0.020	mg/kg	0.400		101	75-125	1.30	20	
Cobalt	0.0897	0.0080	mg/kg	0.0800		112	75-125	2.08	20	
Lead	0.208	0.020	mg/kg	0.200		104	70-130	2.39	20	
Thallium	0.718	0.050	mg/kg	0.800		89.8	75-125	1.07	20	
Molybdenum	0.208	0.020	mg/kg	0.200		104	75-125	1.76	20	
Silver	0.205	0.020	mg/kg	0.200		102	75-125	0.871	20	
Selenium	0.769	0.050	mg/kg	0.800		96.1	75-125	2.25	20	
Copper	0.218	0.020	mg/kg	0.200		109	75-125	1.27	20	
Nickel	0.187	0.020	mg/kg	0.200		93.6	75-125	1.58	20	
Matrix Spike (T2F2208-MS1)		**Source: 2F20006-31**		Prepared: 06/22/12 Analyzed: 06/25/12						
Zinc	78.8	2.0	mg/kg	19.8	63.2	78.5	75-125		20	
Arsenic	37.4	2.0	mg/kg	39.6	3.99	84.4	75-125		20	
Lead	22.8	2.0	mg/kg	19.8	6.69	81.4	70-130		20	
Chromium	40.7	2.0	mg/kg	19.8	26.4	72.4	75-125		20	MS3
Selenium	65.3	5.0	mg/kg	79.2	1.82	80.1	75-125		20	
Silver	16.6	2.0	mg/kg	19.8	ND	83.8	75-125		20	
Nickel	31.3	2.0	mg/kg	19.8	16.2	76.5	75-125		20	
Molybdenum	17.2	2.0	mg/kg	19.8	0.933	81.9	75-125		20	
Cadmium	3.27	0.40	mg/kg	3.96	0.178	78.1	75-125		20	
Vanadium	96.7	2.5	mg/kg	39.6	59.8	93.4	75-125		20	
Beryllium	6.67	0.40	mg/kg	3.96	3.38	83.2	75-125		20	
Barium	111	2.0	mg/kg	39.6	80.0	77.7	75-125		20	
Copper	62.8	2.0	mg/kg	19.8	43.8	96.2	75-125		20	
Antimony	12.5	2.0	mg/kg	19.8	8.24	21.7	75-125		20	MS3
Thallium	65.9	5.0	mg/kg	79.2	3.34	79.0	75-125		20	
Cobalt	20.2	0.80	mg/kg	7.92	12.9	91.8	75-125		20	
Matrix Spike Dup (T2F2208-MSD1)		**Source: 2F20006-31**		Prepared: 06/22/12 Analyzed: 06/25/12						
Beryllium	6.71	0.40	mg/kg	3.98	3.38	83.6	75-125	0.546	20	
Silver	16.7	2.0	mg/kg	19.9	ND	84.0	75-125	0.826	20	
Copper	62.8	2.0	mg/kg	19.9	43.8	95.7	75-125	0.0213	20	
Cadmium	3.29	0.40	mg/kg	3.98	0.178	78.0	75-125	0.523	20	

MOORE TWINING ASSOCIATES, INC.

2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
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California ELAP Certificate # 1371

AMEC Environment & Infrastructure, Irvine
121 Innovation, Suite 200
Irvine CA, 92617

Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2208										
Matrix Spike Dup (T2F2208-MSD1)		**Source: 2F20006-31**		Prepared: 06/22/12 Analyzed: 06/25/12						
Selenium	66.6	5.0	mg/kg	79.7	1.82	81.3	75-125	2.02	20	
Molybdenum	17.5	2.0	mg/kg	19.9	0.933	82.9	75-125	1.77	20	
Barium	110	2.0	mg/kg	39.8	80.0	75.8	75-125	0.511	20	
Vanadium	96.3	2.5	mg/kg	39.8	59.8	91.7	75-125	0.452	20	
Thallium	67.1	5.0	mg/kg	79.7	3.34	80.0	75-125	1.74	20	
Antimony	12.9	2.0	mg/kg	19.9	8.24	23.5	75-125	2.98	20	MS3
Cobalt	20.7	0.80	mg/kg	7.97	12.9	97.6	75-125	2.45	20	
Nickel	31.8	2.0	mg/kg	19.9	16.2	78.3	75-125	1.41	20	
Arsenic	38.3	2.0	mg/kg	39.8	3.99	86.1	75-125	2.31	20	
Lead	23.0	2.0	mg/kg	19.9	6.69	82.1	70-130	1.08	20	
Chromium	40.8	2.0	mg/kg	19.9	26.4	72.6	75-125	0.341	20	MS3
Zinc	79.4	2.0	mg/kg	19.9	63.2	81.3	75-125	0.826	20	
Batch T2F2211										
Blank (T2F2211-BLK1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Cadmium	ND	0.0010	mg/L							
Silver	ND	0.0050	mg/L							
Copper	ND	0.0050	mg/L							
Thallium	ND	0.020	mg/L							
Cobalt	ND	0.0020	mg/L							
Vanadium	0.000651	0.010	mg/L							J
Zinc	ND	0.0050	mg/L							
Barium	ND	0.010	mg/L							
Beryllium	0.0000834	0.0010	mg/L							J
Chromium	ND	0.0050	mg/L							
Molybdenum	ND	0.0050	mg/L							
Arsenic	ND	0.010	mg/L							
Lead	ND	0.0050	mg/L							
Nickel	ND	0.0050	mg/L							
Antimony	0.00289	0.0050	mg/L							J
Selenium	ND	0.020	mg/L							
LCS (T2F2211-BS1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Beryllium	0.0200	0.0010	mg/L	0.0200		100	75-125		20	
Arsenic	0.194	0.010	mg/L	0.200		97.2	75-125		20	
Vanadium	0.206	0.010	mg/L	0.200		103	75-125		20	

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Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2211										
LCS (T2F2211-BS1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Nickel	0.0962	0.0050	mg/L	0.100		96.2	75-125		20	
Barium	0.194	0.010	mg/L	0.200		96.8	75-125		20	
Selenium	0.376	0.020	mg/L	0.400		94.0	75-125		20	
Antimony	0.0998	0.0050	mg/L	0.100		99.8	75-125		20	
Molybdenum	0.105	0.0050	mg/L	0.100		105	75-125		20	
Zinc	0.105	0.0050	mg/L	0.100		105	75-125		20	
Cadmium	0.0215	0.0010	mg/L	0.0200		108	75-125		20	
Lead	0.107	0.0050	mg/L	0.100		107	75-125		20	
Chromium	0.105	0.0050	mg/L	0.100		105	75-125		20	
Silver	0.0993	0.0050	mg/L	0.100		99.3	75-125		20	
Thallium	0.379	0.020	mg/L	0.400		94.7	75-125		20	
Copper	0.105	0.0050	mg/L	0.100		105	75-125		20	
Cobalt	0.0427	0.0020	mg/L	0.0400		107	75-125		20	
LCS Dup (T2F2211-BSD1)				Prepared: 06/22/12 Analyzed: 06/25/12						
Barium	0.192	0.010	mg/L	0.200		96.1	75-125	0.739	20	
Lead	0.106	0.0050	mg/L	0.100		106	75-125	0.942	20	
Beryllium	0.0204	0.0010	mg/L	0.0200		102	75-125	1.72	20	
Selenium	0.377	0.020	mg/L	0.400		94.2	75-125	0.232	20	
Chromium	0.105	0.0050	mg/L	0.100		105	75-125	0.249	20	
Vanadium	0.201	0.010	mg/L	0.200		100	75-125	2.37	20	
Nickel	0.0948	0.0050	mg/L	0.100		94.8	75-125	1.42	20	
Molybdenum	0.104	0.0050	mg/L	0.100		104	75-125	0.711	20	
Thallium	0.365	0.020	mg/L	0.400		91.3	75-125	3.66	20	
Arsenic	0.194	0.010	mg/L	0.200		97.1	75-125	0.0738	20	
Antimony	0.0998	0.0050	mg/L	0.100		99.8	75-125	0.0237	20	
Silver	0.0974	0.0050	mg/L	0.100		97.4	75-125	1.91	20	
Copper	0.103	0.0050	mg/L	0.100		103	75-125	2.41	20	
Cobalt	0.0424	0.0020	mg/L	0.0400		106	75-125	0.757	20	
Cadmium	0.0213	0.0010	mg/L	0.0200		107	75-125	0.972	20	
Zinc	0.105	0.0050	mg/L	0.100		105	75-125	0.404	20	
Matrix Spike (T2F2211-MS1)		**Source: 2F19001-01**		Prepared: 06/22/12 Analyzed: 06/25/12						
Zinc	0.104	0.0050	mg/L	0.100	0.00244	101	75-125		20	
Lead	0.102	0.0050	mg/L	0.100	ND	102	75-125		20	
Cobalt	0.0403	0.0020	mg/L	0.0400	ND	101	75-125		20	
Copper	0.104	0.0050	mg/L	0.100	ND	104	75-125		20	

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Project Number: Crown City Plating Company
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Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2211										
Matrix Spike (T2F2211-MS1)		**Source: 2F19001-01**		Prepared: 06/22/12 Analyzed: 06/25/12						
Chromium	0.106	0.0050	mg/L	0.100	0.00236	103	75-125		20	
Selenium	0.383	0.020	mg/L	0.400	0.00558	94.3	75-125		20	
Antimony	0.0982	0.0050	mg/L	0.100	0.00398	94.2	75-125		20	
Arsenic	0.200	0.010	mg/L	0.200	ND	99.9	75-125		20	
Nickel	0.0545	0.0050	mg/L	0.100	ND	54.5	75-125		20	MS3
Thallium	0.386	0.020	mg/L	0.400	ND	96.4	75-125		20	
Vanadium	0.235	0.010	mg/L	0.200	0.0318	102	75-125		20	
Molybdenum	0.104	0.0050	mg/L	0.100	ND	104	75-125		20	
Cadmium	0.0207	0.0010	mg/L	0.0200	ND	103	75-125		20	
Silver	0.0989	0.0050	mg/L	0.100	ND	98.9	75-125		20	
Barium	0.725	0.010	mg/L	0.200	0.535	95.0	75-125		20	
Beryllium	0.0197	0.0010	mg/L	0.0200	ND	98.4	75-125		20	
Matrix Spike Dup (T2F2211-MSD1)		**Source: 2F19001-01**		Prepared: 06/22/12 Analyzed: 06/25/12						
Zinc	0.102	0.0050	mg/L	0.100	0.00244	99.5	75-125	1.68	20	
Beryllium	0.0201	0.0010	mg/L	0.0200	ND	101	75-125	2.22	20	
Selenium	0.373	0.020	mg/L	0.400	0.00558	91.8	75-125	2.59	20	
Cobalt	0.0396	0.0020	mg/L	0.0400	ND	99.1	75-125	1.59	20	
Copper	0.103	0.0050	mg/L	0.100	ND	103	75-125	0.171	20	
Vanadium	0.233	0.010	mg/L	0.200	0.0318	101	75-125	1.00	20	
Arsenic	0.198	0.010	mg/L	0.200	ND	98.9	75-125	0.968	20	
Antimony	0.0989	0.0050	mg/L	0.100	0.00398	94.9	75-125	0.738	20	
Chromium	0.103	0.0050	mg/L	0.100	0.00236	101	75-125	2.44	20	
Nickel	0.0544	0.0050	mg/L	0.100	ND	54.4	75-125	0.273	20	MS3
Thallium	0.379	0.020	mg/L	0.400	ND	94.8	75-125	1.64	20	
Cadmium	0.0204	0.0010	mg/L	0.0200	ND	102	75-125	1.24	20	
Molybdenum	0.103	0.0050	mg/L	0.100	ND	103	75-125	1.10	20	
Silver	0.0990	0.0050	mg/L	0.100	ND	99.0	75-125	0.141	20	
Lead	0.0995	0.0050	mg/L	0.100	ND	99.5	75-125	2.27	20	
Barium	0.725	0.010	mg/L	0.200	0.535	95.3	75-125	0.0658	20	
Batch T2F2608										
Blank (T2F2608-BLK1)				Prepared & Analyzed: 06/27/12						
Mercury	ND	0.20	µg/L							
LCS (T2F2608-BS1)				Prepared & Analyzed: 06/27/12						
Mercury	4.82	0.20	µg/L	5.00		96.4	80-120		20	

Moore Twining Associates, Inc.
Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project: Crown City Plating Company
Project Number: Crown City Plating Company
Project Manager: Thet Naing

Reported:
7/11/12

Metals - Totals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch T2F2608										
LCS Dup (T2F2608-BSD1)				Prepared & Analyzed: 06/27/12						
Mercury	5.01	0.20	µg/L	5.00		100	80-120	3.83	20	
Matrix Spike (T2F2608-MS1)		**Source: 2F21031-01**		Prepared & Analyzed: 06/27/12						
Mercury	5.24	0.20	µg/L	5.00	ND	105	70-130		20	
Matrix Spike Dup (T2F2608-MSD1)		**Source: 2F21031-01**		Prepared & Analyzed: 06/27/12						
Mercury	5.00	0.20	µg/L	5.00	ND	100	70-130	4.68	20	
Batch T2F2901										
Blank (T2F2901-BLK1)				Prepared & Analyzed: 07/02/12						
Mercury	ND	0.013	mg/kg							
LCS (T2F2901-BS1)				Prepared & Analyzed: 07/02/12						
Mercury	0.331	0.013	mg/kg	0.333		99.4	70-130		20	
LCS Dup (T2F2901-BSD1)				Prepared & Analyzed: 07/02/12						
Mercury	0.329	0.013	mg/kg	0.333		98.7	70-130	0.626	20	
Matrix Spike (T2F2901-MS1)		**Source: 2F25010-01**		Prepared & Analyzed: 07/02/12						
Mercury	0.356	0.013	mg/kg	0.336	ND	106	70-130		20	
Matrix Spike Dup (T2F2901-MSD1)		**Source: 2F25010-01**		Prepared & Analyzed: 07/02/12						
Mercury	0.359	0.013	mg/kg	0.333	ND	108	70-130	0.811	20	

2F20006

NB34049

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 06-19-12 PAGE 1 OF 5

PROJECT NUMBER: NB1C160075A

RESULTS TO: Joseph Bahde

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julie Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	CAM17 metals	(6010B/7471A)	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
1	06-19-12	845	AC13-B9-4.0	X		X		4oz jar	S					1	
2		849	AC13-B9-6.0	X		X			S					1	
3		852	AC13-B9-10.0	X		X			S					1	
4		857	AC13-B9-15.0	X		X			S					1	
5		900	AC13-B9-20.0	X		X			S					1	
6		905	AC13-B9-25.0				X		S					1	
7		908	AC13-B9-30.0				X		S					1	
8		913	AC13-B9-35.0				X		S					1	
9		917	AC13-B9-40.0				X		S					1	
10		936	AC13-B8-4.0	X		X			S					1	
11		938	AC13-B8-6.0	X		X			S					1	
12		940	AC13-B8-10.0	X		X			S					1	
13		942	AC13-A8-10.0	X		X			S					1	
14		944	AC13-~~A8~~ B8-15.0	X		X			S					1	
15		947	AC13-~~A8~~ B8-20.0	X		X			S					1	

TOTAL NUMBER OF CONTAINERS: 15

SAMPLING COMMENTS:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	06/19/12	1605	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE: [signature]	6/20/12 @ 1030am	
PRINTED NAME:			PRINTED NAME: Lie Rutherford		
COMPANY:			COMPANY: MTA		

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

Lx 20006

NB34050 IN

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 06-19-12 PAGE 2 OF ~~2~~ 5

PROJECT NUMBER: NB1016075A

RESULTS TO: Joseph Bahde

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: FedEx

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julio Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

	DATE	TIME	SAMPLE NUMBER	CAM17 metals (6010B/7471A)	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
16	06/19/12	952	AC13-B8-25.0			X	4 oz jar	S		-	✓		1	
17		956	AC13-B8-30.0			X		S		-	✓		1	
18		958	AC13-B8-35.0			X		S		-	✓		1	
19		1100	SW8a-0.5	X	X			S		-	✓		1	
20		1105	SW8a-2.0			X		S		-	✓		1	
21		1107	SW8a-5.0			X		S		-	✓		1	
22		1110	SW8d-2.0	X	X			S		-	✓		1	
23		1115	SW8-2.0	X	X			S		-	✓		1	
24		1120	SW8-5.0	X	X			S		-	✓		1	
25		1130	SW8b-0.5	X	X			S		-	✓		1	
26		1132	SW8b-2.0			X		S		-	✓		1	
27		1135	SW8b-5.0			X		S		-	✓		1	
28		1148	SW4b-0.5	X				S		-	✓		1	
29		1150	SW4b-2.0			X		S		-	✓		1	
30		1152	SW4b-5.0			X		S		-	✓		1	

TOTAL NUMBER OF CONTAINERS: 15

SAMPLING COMMENTS:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	06/19/12	1605	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE: [signature]	6/20/12@ 1030am	
PRINTED NAME:			PRINTED NAME: Liz Rutherford		
COMPANY:			COMPANY: MJA		

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

amec

2F20006

NB34051

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Crown City Plating Company

DATE: 06-19-12

PAGE 3 OF 5

PROJECT NUMBER: NB1016075A

RESULTS TO: Joseph Bahde

TURNAROUND TIME: Standard

SAMPLE SHIPMENT METHOD: Fed Ex

LABORATORY NAME: Moore Twining

LABORATORY ADDRESS:

LABORATORY CONTACT: Julio Morales

LABORATORY PHONE NUMBER:

CLIENT INFORMATION:

REPORTING REQUIREMENTS:

GEOTRACKER REQUIRED YES NO

SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

DATE	TIME	SAMPLE NUMBER	CAM 17 metals (6010B/7471A)	Hexavalent Chromium	HOLD	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
31 06/19/12	1205	SW4-2.0	X	X		4oz jar	S		—	✓		1	
32	1207	SW4-5.0	X	X			S		—	✓		1	
33	1220	SW4a-0.5	X	X			S		—	✓		1	
34	1222	SW4a-2.0			X		S		—	✓		1	
35	1224	SW4a-5.0			X		S		—	✓		1	
36	1350	QCEB-061912	X			250 mL poly	W		HNO_3	✓		1	

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	06/19/12	1605	SIGNATURE:		
PRINTED NAME: Thet Naing			PRINTED NAME:		
COMPANY: AMEC			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:	6/20/12	1030am
PRINTED NAME:			PRINTED NAME: Liz Rutherford		
COMPANY:			COMPANY: MA		

TOTAL NUMBER OF CONTAINERS: 6

SAMPLING COMMENTS:

121 Innovation Drive, Suite 200
Irvine, California 92617-3094
Tel 949.642.0245 Fax 949.642.4474

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Moore Twining Associates, Inc.

Sample Integrity Page 4 of 5 WO# 2F20006 Date Received: 6/20/12

Section 1-Sampled Same Day

Sample Transport: Walk In MTA Courier Transported In: Ice Chest Box Hand

Has Chilling Begun? Yes No

Section 2-Sampled Previously

Sample Transport: CAO UPS GSO Fed Ex MTA Courier Other:_____

No. Coolers/Ice Chests: 1 Temperature(s): 8° C

Was Temperature In Range: Y or N Received On Ice: Wet Blue

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Were ice chest custody seals present? Y or N Intact? Y or N

Section 3-COC Info.

	Completed		Info From Container	Completed	
	Yes	No		Yes	No
Was COC Received	X		Analysis Requested	X	
Date Sampled	X		Any hold times less than 72hr		X
Time Sampled	X		Client Name	X	
Sample ID	X		Address	X	
Special Storage/Handling Ins.		X	Telephone #	X	

Section 4-Bottles/Analysis

	Yes	No	N/A	Comment
Did all bottles arrive unbroken and intact?	X			
Were bottle custody seals present?	X			
Were Bbottle custody seals intact?	X			
Did all bottle labels agree with COC?	X			
Were correct containers used for the tests requested?	X			
Was sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials? (Volatiles Methods Only)			X	
Were Ascorbic Acid Bottles Received with VOAs?			X	

Section 5-Comment/Discrepancies

Sample(s) Split/Preserve: Yes or No Container:_____ Preservation:_____ Initials:_____

Was Client Service Supervisor notified of discrepancies: Yes or No N/A Notified by:_____

Explanations/Comments:

Labeled by:_____ Checked by:_____

Sample Integrity Page 5 of 5 WO# 2F20006 MTA Bottles: Yes or No

Plastic 125mL (A)	Plastic 250mL (B)	Plastic 1L (C)	Amber Glass (AG)								
Sample(s) Received	1-35	36									
Bacti 100mL Thiosulfate											
None Preserved Plastic		1A									
HNO3 Plastic											
H2SO4 Plastic											
NaOH Plastic											
300mL DO Bottle											
Other											
Client Own											
1L Plastic NaOH/ZnAc											
250mL (AG) None											
250mL (AG) H2SO4											
250mL (AG) Thio 515, 547, 548											
250mL (AG) Other											
500mL Clear Glass None											
1L (AG) None											
1L (AG) HCl											
1L (AG) Thio											
40mL (AG VOA) Thio + K Citrate 532											
40mL VOA Vial - HCl											
40mL VOA Vial - None											
40mL VOA Vial - H3PO4											
40mL VOA Vial (AG) - thio (THM)											
40mL VOA Vial - Na2SO3 (thio)											
Soil Jar Clear Glass 125mL 250mL 500mL											
THM 40mL VOA None											
Plastic Bag											
Soil Tube											
Tedlar Bags											
Clear Glass 4 oz Jar	1										
Asbestos 1L Plastic											
Gross Alpha/Beta 1L HNO3 each											
Radiological 226/228 1L HNO3 each											
Radon											
Low Level Hg/Metals Double Bag											

APPENDIX G

Quality Assurance/Quality Control Evaluation

amec

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2C06003
Sample Numbers: *(Attach list if needed)*	**See page 2**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☐ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	☐ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	☒ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**03/29/2012**
Reviewed by:		Date:	

AC01-B1-1.0	3/1/2012	AC05-B3-1.0	3/2/2012	AC01-B6-15.0	3/5/2012
AC01-B2-1.0	3/1/2012	AC05-B3-5.0	3/2/2012	AC13-B5-1.0	3/5/2012
AC01-B1-5.0	3/1/2012	AC05-B3-10.0	3/2/2012	AC13-B5-5.0	3/5/2012
AC01-B1-10.0	3/1/2012	AC05-B3-15.0	3/2/2012	AC13-B5-10.0	3/5/2012
AC01-B1-15.0	3/1/2012	AC05-B3-20.0	3/2/2012	AC13-B4-1.0	3/5/2012
AC01-B1-18.5	3/1/2012	AC05-B4-1.0	3/2/2012	AC13-B2-1.0	3/5/2012
AC01-B3-1.0	3/1/2012	AC05-B4-5.0	3/2/2012	AC13-B4-5.0	3/5/2012
AC01-B2-5.0	3/1/2012	AC05-B4-10.0	3/2/2012	AC13-B4-10.0	3/5/2012
AC01a-B1-5.0	3/1/2012	AC05a-B1-15.0	3/2/2012	AC13-B2-5.0	3/5/2012
AC01-B2-10.0	3/1/2012	AC05-B4-15.0	3/2/2012	AC13-B2-10.0	3/5/2012
AC01-B2-15.0	3/1/2012	AC05-B4-20.0	3/2/2012	AC13-B2-15.0	3/5/2012
AC01-B4-1.0	3/1/2012	AC05-B5-1.0	3/2/2012	AC13-B2-20.0	3/5/2012
AC01-B3-5.0	3/1/2012	AC05-B5-5.0	3/2/2012	QCEB-030512	3/5/2012
AC01-B3-10.0	3/1/2012	AC05-B5-10.0	3/2/2012		
AC01a-B1-10.0	3/1/2012	AC05-B5-15.0	3/2/2012		
AC01-B3-15.0	3/1/2012	AC05-B5-20.0	3/2/2012		
AC01-B4-5.0	3/1/2012	QCEB-030212	3/2/2012		
AC01-B4-10.0	3/1/2012	AC05-B6-1.0	3/5/2012		
AC01-B4-15.0	3/1/2012	AC05-B6-5.0	3/5/2012		
QCEB-030112	3/1/2012	AC05-B6-10.0	3/5/2012		
AC05-B1-1.0	3/2/2012	AC05-B6-15.0	3/5/2012		
AC05-B1-5.0	3/2/2012	AC05-B6-20.0	3/5/2012		
AC05-B1-10.0	3/2/2012	AC01-B5-1.0	3/5/2012		
AC05-B1-15.0	3/2/2012	AC01-B5-5.0	3/5/2012		
AC05-B1-18.5	3/2/2012	AC01-B5-10.0	3/5/2012		
AC05-B2-1.0	3/2/2012	AC01-B5-15.0	3/5/2012		
AC05a-B1-1.0	3/2/2012	AC01-B6-1.0	3/5/2012		
AC05-B2-5.0	3/2/2012	AC01-B6-5.0	3/5/2012		
AC05-B2-10.0	3/2/2012	AC01-B6-10.0	3/5/2012		
AC05-B2-14.0	3/2/2012	AC01a-B2-10.0	3/5/2012		

INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Asso.**
Project Number:	**NB1016075A**	Lab Report Number:	**2C06003**
Reviewer's Signature:	Thet Naing	Number of Samples:	**73**
Review Date:	**03/29/2012**	Matrix:	**Soil and water**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	
Other descriptors:	**6010B**	**7471A**	**7196A**	
1. Preservation/hold times	**O**	**O**	**O**	
2. Calibrations				
3. Blanks	**O**	**O**	**O**	
4. Interference check sample				
5. Lab control sample	**O**	**O**	**O**	
6. Duplicate sample analysis	**M1**	**M2**	**M3**	
7. Spike sample analysis	**M1**	**M2**	**M3**	
8. ICP serial dilution				
9. ICP-MS tune analysis				
10. ICP-MS internal standards				
11. Field duplicates	**O**	**M4**	**O**	
12. Overall assessment	**O**	**O**	**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	%Rs for MS1 and MSD1 for Zn associated with QC batch T2C0710 were above QC limits. Remaining analyses were within limits.	Data qualification was not necessary.
	%Rs for MS1 and MS2 and RPD for MS2-MSD2 pair for Cu associated with QC batch T2C0710 were above QC limits.	Cu was detected above reporting limits in all associated soil samples. Cu results were qualified with J flags.
	%Rs for MS2 and MSD2 for Sb associated with QC batch T2C0710 were below QC limits. Remaining analyses were within limits.	Data qualification was not necessary.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C0811 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for MSD1 and/or MSD2 for Ba, Be, Cr, Ni and Zn associated with QC batch T2C0811 were below QC limits. Remaining analyses were within QC limits.	Data qualification was not necessary.
	%Rs for MS and/or MSD analyses for Zn, Be, Co and Ba associated with QC batch T2C1213 were outside QC limits. Remaining analyses were within QC limits.	Data qualification was not necessary.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C1213 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C1303 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for both MS and MSD analyses for Ba and Tl %Rs associated with QC batch T2C1309 were below QC limits.	The QC batch was associated with equipment blank samples. Ba and Tl results for associated water sample results were qualified with UJ flags.
M2	%Rs for MS1 and MS2 for Hg associated with QC batch T2C0813 were outside QC limits. RPDs for both MS and MSD pairs were above QC limits.	Hg results associated with this QC batch were qualified with J flags.
M3	%Rs for all MS and MSD analyses for Cr(VI) associated with QC batch T2C1207 and T2C1305 were below QC limits. RPD for one of the MS/MSD pairs in each batch was also above QC limits.	Cr(VI) results for associated soil samples were qualified with either J- or UJ flags.
M4	RPDs calculated for Hg from two pairs were above 50%. The primary-duplicate sample pairs were associated with soil samples collected from AC01-B3, AC01-B4, AC01-B5 and AC01-B6.	Hg was detected above reporting limits in all associated soil samples. Hg results were qualified with J flags.

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2C07012
Sample Numbers: *(Attach list if needed)*	**See page 2**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☐ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	☒ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☒ Yes ☐ No	*If yes, identify associated samples:* **Zn was detected at 0.0061 mg/L in the equipment blank**

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	☒ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**03/28/2012**
Reviewed by:		Date:	

AC13-B3-1.0	3/6/2012
AC13a-B1-1.0	3/6/2012
AC13-B3-5.0	3/6/2012
AC13-B1-1.0	3/6/2012
AC13-B3-10.0	3/6/2012
AC13-B6-1.0	3/6/2012
AC13-B6-5.0	3/6/2012
AC13-B6-10.0	3/6/2012
AC13-B6-13.5	3/6/2012
AC13-B7-1.0	3/6/2012
AC13-B7-5.0	3/6/2012
AC13a-B1-5.0	3/6/2012
AC13-B7-10.0	3/6/2012
AC13-B1-5.0	3/6/2012
AC13-B1-10.0	3/6/2012
QCEB-030612	3/6/2012
AC13-B1-13.0	3/6/2012

INORGANIC DATA ASSESSMENT SUMMARY

Project Information			
Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Asso.**
Project Number:	**NB1016075A**	Lab Report Number:	**2C07012**
Reviewer's Signature:	Thet Naing	Number of Samples:	**17**
Review Date:	**03/28/2012**	Matrix:	**Soil and water**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	
Other descriptors:	**6010B**	**7471A**	**7196A**	
1. Preservation/hold times	**O**	**O**	**O**	
2. Calibrations				
3. Blanks	**O**	**O**	**O**	
4. Interference check sample				
5. Lab control sample	**O**	**M2**	**O**	
6. Duplicate sample analysis			**M4**	
7. Spike sample analysis	**M1**	**M2**	**M4**	
8. ICP serial dilution				
9. ICP-MS tune analysis				
10. ICP-MS internal standards				
11. Field duplicates	**O**	**M3**	**O**	
12. Overall assessment	**O**	**O**	**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	Antimony %Rs for all MS/MSD analyses were below QC limits associated with all soil samples in this lab report.	Antimony results for all soil samples in this report were qualified with either J- or UJ flags.
	Ba and Tl %Rs for MS1 and MSD1 were below QC limits associated with QCEB. Remaining analyses were within limits.	Ba and Tl were not detected above reporting limits in the QCEB. Ba and TL results for QCEB were qualified with UJ flags.
M2	Mercury LCS %R associated with QCEB was below QC limit. Associated MS/MSD analyses were also QC limits.	Mercury was not detected above reporting limit in the QCEB. Mercury result for QCEB was qualified with UJ flag.
	Mercury MSD %R associated with soil samples A13-B6-1.0 and B13-B7-1.0 was above QC limit. Remaining analyses were within limits.	Data qualification was not necessary.
M3	Two sets of primary and duplicate soil samples were analyzed for soil samples in this report. RPDs calculated from both primary and duplicate sample pairs for mercury were above the precision goal of 50%.	Mercury was detected above reporting limits in all associated soil samples. Mercury results were qualified with J flags.
M4	Hex. Chrome %Rs for all MS/MSD analyses were below QC limits associated with the QC batch T2C1305.	Hex. Chrome was detected above reporting limits in the associated soil samples (AC13-B3-10.0, AC13-B6-1.0, AC13-B6-5.0, AC13-B6-10.0, AC13-B7-1.0, AC13-B7-5.0). Hex. Chrome results were qualified with J- flags.
	Hex. Chrome MSD1 %R was below QC limits associated with the QC batch T2C1914. Remaining analyses were within QC limits.	Data qualification was not necessary.
	Hex. Chrome %Rs for both MS and MSD analyses were above QC limits associated with AC13-B1-10.0.	Hex. Chrome was detected above reporting limit in the AC13-B1-10.0. Result was qualified with J+ flag.

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LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2C09001
Sample Numbers: *(Attach list if needed)*	**See page 2**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☐ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	☒ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	☒ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**03/292012**
Reviewed by:		Date:	

SW7	3/8/2012
SW8	3/8/2012
SWA1	3/8/2012
SW9	3/8/2012
SW6	3/8/2012
SW5	3/8/2012
SW4	3/8/2012
SW3	3/8/2012
AC09-09	3/8/2012
AC09-08	3/8/2012
AC09-07	3/8/2012
AC09a-01	3/8/2012
AC09-05	3/8/2012
AC09-06	3/8/2012
AC09-04	3/8/2012
AC07-03-1.0	3/8/2012
AC07-03-5.0	3/8/2012
AC07-04-1.0	3/8/2012
AC07-04-5.0	3/8/2012
AC07-06-1.0	3/8/2012
AC07-06-5.0	3/8/2012
AC07-05-1.0	3/8/2012
AC07-05-5.0	3/8/2012
SW1	3/8/2012
SW2	3/8/2012
SW2a	3/8/2012
BK5	3/8/2012
BK6	3/8/2012
BK7	3/8/2012
QCEB-030812	3/8/2012

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INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Associates**
Project Number:	**NB1016075A**	Lab Report Number:	**2C09001**
Reviewer's Signature:	Thet Naing	Number of Samples:	**17**
Review Date:	**03/29/2012**	Matrix:	**Soil and water**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	**Cyanide**
Other descriptors:	**6010B**	**7471A**	**7196A**	**9014**
1. Preservation/hold times	**O**	**O**	**O**	**O**
2. Calibrations				
3. Blanks	**O**	**O**	**O**	**O**
4. Interference check sample				
5. Lab control sample	**O**	**M2**	**O**	**O**
6. Duplicate sample analysis		**M2**	**M4**	**O**
7. Spike sample analysis	**M1**	**M2**	**M4**	**O**
8. ICP serial dilution				
9. ICP-MS tune analysis				
10. ICP-MS internal standards				
11. Field duplicates	**M3**	**M3**	**O**	**O**
12. Overall assessment	**O**	**O**	**O**	**O**

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	Antimony %Rs for all MS/MSD analyses were below QC limits associated with soil sample SW7 (QC batch T2C1303).	Antimony result for SW7 was qualified with J-flag.
	Ba and Tl %Rs for both MS and MSD were below QC limits associated with QCEB.	Ba and Tl were not detected above reporting limits in the QCEB. Ba and TL results for QCEB were qualified with UJ flags.
	MS and/or MSD %Rs were outside QC limits for all analytes associated with QC batch T2C1616. For the same QC batch, RPD for either MS1/MSD1 or MS2/MSD2 pair was above QC limit for all analytes.	Results for all analytes for soil samples associated with QC batch were qualified with either J or UJ flags.
M2	Mercury LCS %R associated with AC07-05-5.0 (QC batch T20914) was below QC limit. RPD for LCS and LCSD was also above QC limit. Mercury %Rs for all MS and MSD associated withAC07-05-5.0 were below QC limits and RPD for MS2/MSD2 pair was also above QC limits.	Mercury was detected above reporting limit in the AC07-05-5.0. Mercury result was qualified with J flag.
	Mercury MSD %R associated with QC batch T2C1401 was above QC limit. Remaining analyses were within limits.	Data qualification was not necessary.
	Mercury %Rs for both MS and MSD associated with soil sample SW2A (QC batch T2C2203) were below QC limits.	Mercury was detected above reporting limit in the SW2A. Mercury result was qualified with J- flag.
M4	Hex. Chrome %Rs for both MS and MSD were above QC limits associated with QC batch T2C2008.	Hex. Chrome was detected above reporting limits in associated soil samples. Results qualified with J+ flags.
	Hex. Chrome %Rs for all MS/MSD analyses were below QC limits associated with the QC batch T2C2205.	Hex. Chrome was detected above reporting limits in associated soil samples. Results qualified with J- flags.
M3	Two sets of primary and duplicate soil samples were analyzed for soil samples in this report. RPDs calculated from one primary and duplicate sample pair (SW8 and SWA1) for mercury and nickel were above the precision goal of 50%. RPDs for the other pair (SW2 and SW2a) were within limit.	Mercury and nickel results SW7, SW8, SWA1, SW9, SW6, SW5, SW4, SW3, AC09-09 and AC09-08 were qualified with J flags.

amec

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2E22003
Sample Numbers: *(Attach list if needed)*	**AC05-B5-15.0, AC05-B5-20.0**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	■ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	■ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	■ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	■ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	■ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ■ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	■ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ■ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	■ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**06/06/12**
Reviewed by:		Date:	

INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Associates**
Project Number:	**NB1016075A**	Lab Report Number:	**2E22003**
Reviewer's Signature:	Thet Naing	Number of Samples:	**AC05-B5-15.0, AC05-B5-20.0**
Review Date:	**06/06/12**	Matrix:	**Soil**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	
Other descriptors:	**6010B**	**7471A**	**7196A**	
1. Preservation/hold times	**O**	**O**	**M1**	
2. Calibrations	-	-	-	
3. Blanks	**M2**	**M3**	**O**	
4. Interference check sample	-	-	-	
5. Lab control sample	**O**	**O**	**O**	
6. Duplicate sample analysis	**O**	**O**	**O**	
7. Spike sample analysis	**M4**	**Z**	**M5**	
8. ICP serial dilution	-	-	-	
9. ICP-MS tune analysis	-	-	-	
10. ICP-MS internal standards	-	-	-	
11. Field duplicates	-	-	-	
12. Overall assessment	**O**	**Z**	**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	Hexavalent chromium was analyzed past holding time. The sample was previously on hold. The analyses were requested past holding time.	Sample results were qualified with J flags.
M2	Se, Zn and Sb were detected in the method blank sample at concentrations below reporting limit.	• Se was detected in the associated soil sample at less than ten times the detection in the method blank. Se result was qualified with J flag. • Zn was detected in the associated soil sample at concentrations greater than ten times the detection in the method blank. No action required. • Sb was detected in the associated soil sample at less than ten times the detection in the method blank. Sb result was qualified with J flag.
M3	Hg was detected in the method blank at concentration below reporting limit.	Hg was detected in the soil sample at concentration greater than ten times detection in the method blank. No action required.
M4	%Rs for MS for Ni, Se, Ba, Sb, Cr, Tl and Zn were below QC limits. %Rs for MSD for associated analytes were within limits.	No action required.
Z	Hg was not recovered in either MS or MSD analysis.	Hg result for AC05-B5-15.0 and AC05-B5-20.0 were rejected.
M5	%Rs for MS and MSD analyses for Cr(VI) were above laboratory QC limits.	Cr(VI) was detected above reporting limit in the associated soil samples. The Cr(VI) result was already qualified for past holding time.

amec

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2E22004
Sample Numbers: *(Attach list if needed)*	**AC13-B1-13.0**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☒ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☒ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☒ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☒ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	☒ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	☒ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**06/06/12**
Reviewed by:		Date:	

INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Associates**
Project Number:	**NB1016075A**	Lab Report Number:	**2E22004**
Reviewer's Signature:	Thet Naing	Number of Samples:	**1 (AC13-B1-13)**
Review Date:	**06/06/12**	Matrix:	**Soil**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	
Other descriptors:	**6010B**	**7471A**	**7196A**	
1. Preservation/hold times	**O**	**O**	**M1**	
2. Calibrations	-	-	-	
3. Blanks	**M2**	**M3**	**O**	
4. Interference check sample	-	-	-	
5. Lab control sample	**O**	**O**	**O**	
6. Duplicate sample analysis	**O**	**O**	**O**	
7. Spike sample analysis	**M4**	**Z**	**M5**	
8. ICP serial dilution	-	-	-	
9. ICP-MS tune analysis	-	-	-	
10. ICP-MS internal standards	-	-	-	
11. Field duplicates	-	-	-	
12. Overall assessment	**O**	**Z**	**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	Hexavalent chromium was analyzed past holding time. The sample was previously on hold. The analyses were requested past holding time.	Sample results were qualified with J flags.
M2	Se, Zn and Sb were detected in the method blank sample at concentrations below reporting limit.	• Se was detected in the associated soil sample at less than ten times the detection in the method blank. Se result was qualified with J flag. • Zn was detected in the associated soil sample at concentrations greater than ten times the detection in the method blank. No action required. • Sb was detected in the associated soil sample at less than ten times the detection in the method blank. Sb result was qualified with J flag. •
M3	Hg was detected in the method blank at concentration below reporting limit.	Hg was detected in the soil sample at concentration greater than ten times detection in the method blank. No action required.
M4	%Rs for MS for Ni, Se, Ba, Sb, Cr, Tl and Zn were below QC limits. %Rs for MSD for associated analytes were within limits.	No action required.
Z	Hg was not recovered in either MS or MSD analysis.	Hg result for AC05-B5-15.0 and AC05-B5-20.0 were rejected.
M5	%Rs for MS and MSD analyses for Cr(VI) were above laboratory QC limits.	Cr(VI) was detected above reporting limit in the associated soil samples. The Cr(VI) result was already qualified for past holding time.

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LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Moore Twining Associates
Project Number:	NB1016075A	Lab Report Number:	2F20006
Sample Numbers: *(Attach list if needed)*	**See page 2**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	☐ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Organic Data Assessment Summary form	☐ Attached	
Inorganic Data Assessment Summary form	☒ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ☒ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	☒ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ☒ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	☒ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**07/12/12**
Reviewed by:		Date:	

AC13-B9-4.0
AC13-B9-6.0
AC13-B9-10.0
AC13-B9-15.0
AC13-B9-20.0
AC13-B8-4.0
AC13-B8-6.0
AC13-B8-10.0
AC13-A8-10.0
AC13-B8-15.0
AC13-B8-20.0
SW8a-0.5
SW8d-2.0
SW8-2.0
SW8-5.0
SW8b-0.5
SW4b-0.5
SW4-2.0
SW4-5.0
SW4a-0.5
QCEB-061912

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INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**Moore Twining Associates**
Project Number:	**NB1016075A**	Lab Report Number:	**2F20006**
Reviewer's Signature:	Thet Naing	Number of Samples:	**21**
Review Date:	**07/12/12**	Matrix:	**Soil and water**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**CAM 17**		**Hex. Chrome**	
Other descriptors:	**6010B**	**7471A**	**7196A**	
1. Preservation/hold times	**O**	**O**	**O**	
2. Calibrations				
3. Blanks	**M1**	**O**	**O**	
4. Interference check sample				
5. Lab control sample	**O**	**O**	**O**	
6. Duplicate sample analysis	**O**	**M2**	**M3**	
7. Spike sample analysis	**M4**	**M2**	**M3**	
8. ICP serial dilution				
9. ICP-MS tune analysis				
10. ICP-MS internal standards				
11. Field duplicates	**M5**	**O**	**O**	
12. Overall assessment	**O**	**O**	**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	Sb, Cr and Zn were detected above MDL but below RL in the method blank associated with all soil samples except SW4-2.0, SW4-5.0 and SW4a-0.5.	Sb, Cr and Zn were detected at concentrations more than 10 times detections in the blank sample, and data qualification was not necessary.
	Sb and Zn were detected above MDL but below RL in the method blank associated with soil samples SW4-2.0, SW4-5.0 and SW4a-0.5.	Sb and Zn were detected at concentrations more than 10 times detections in the blank sample, and data qualification was not necessary.
M2	For Hg, MSD %R associated with all soil samples was above QC limit and RPD associated with MS and MSD analyses was also above QC limit.	Hg was detected in all associated soil samples above laboratory reporting limits. All Hg results were qualified with J flags.
M3	For Cr(VI), all %Rs for MS and MSD analyses were below QC limits. RPD associated with one MS/MSD pair was also above QC limit.	Cr(VI) was detected above reporting limits in all associated soil samples except in AC13-B9-10.0. Cr(VI) result for AC13-B9-10.0 was qualified with J flag by the laboratory. Remaining results were qualified with J- flags.
M4	For Sb, %Rs for all MSD and MSD analyses were below QC limits for both QC batches associated with all soil samples.	Sb was detected above reporting limits in all associated soil samples. All Sb results were qualified with J- flags.
	- For Cr, %Rs for MS analyses were below QC limits for QC batch (T2F2019) associated with all soil samples except SW4-2.0, SW4-5.0 and SW4a-0.5. - For Cr, %Rs for MS and MSD analyses were below QC limits for QC batch (T2F2208) associated with soil samples SW4-2.0, SW4-5.0 and SW4a-0.5.	-MSD analyses and LCS/LCSD analyses were within limits. Data qualification was not necessary. -Cr was detected above reporting limits in all associated soil samples. Cr results were qualified with J- flags.
	For Zn, %Rs for all MS and MSD except for MS2 were below QC limits associated with all soil samples except SW4-2.0, SW4-5.0 and SW4a-0.5.	Zn was detected above reporting limits in all associated soil samples. All Zn results were qualified with J- flags.
	For Ni, %R for MSD1 was below QC limit associated with all soil samples except SW4-2.0, SW4-5.0 and SW4a-0.5.	Remaining MS/MSD and LCS/LCSD analyses were within limits, and data qualification was not necessary.
	For Ba, %Rs for MSD1 and MSD2 were outside QC limits.	
M5	-RPD for Hg was above QA goal of 50% for one primary and duplicate sample pair (AC13-B8-10.0 and AC13-A8-10.0). The pair was associated with soil samples collected from AOC 13 on June 19, 2012. -RPDs for Cr(VI), Pb, and Ni were above QA goal of 50% for one primary and duplicate sample pair (SW8d-2.0 and SW8-2.0). The pair was associated with soil samples collected from the southeast parking lot on June 19, 2012.	- Hg results for all soil samples collected from AOC 13 on June 19 were qualified with J flags. - Cr(VI), Pb, and Ni results for soil samples collected from the southeast parking lot on June 19 were qualified with J flags.

LAB REPORT QUALITY ASSURANCE CHECKLIST

Project Information			
Project Name:	Crown City Plating	Lab Name:	Calscience
Project Number:	NB1016075A	Lab Report Number:	12-06-1318
Sample Numbers: *(Attach list if needed)*	**See page 2**		

Report Completeness		Comments
Are all samples listed on the COC included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	■ Yes ☐ No	
Are all analytical tests listed on the COC for each sample included in the report? *(Indicate any differences in Comments column and resolve with the lab.)*	■ Yes ☐ No	
Are all items required by the contract with the lab included in the report? *(Indicate any exceptions in the Comments column.)*	■ Yes ☐ No	

QA Review of Lab Performance		Comments
Do all reporting limits meet project requirements? *(Indicate any differences in Comments column and resolve with the lab.)*	☐ Yes ☐ No	
Organic Data Assessment Summary form	■ Attached	
Inorganic Data Assessment Summary form	■ Attached	

Field Blank QA Review		
Are there any detections in the trip blanks?	☐ Yes ■ No	*If yes, identify associated samples:* **Trip blanks are not analyzed**
Are there any detections in the equipment blanks?	☐ Yes ☐ No	*If yes, identify associated samples:*

Invoice Review		
Did the lab meet the promised turnaround times?	■ Yes ☐ No	*If no, does a discount apply?*
Did any problems result in unusable sample results?	☐ Yes ■ No	*If yes, evaluate whether the lab should be paid for the analysis.*
Are all items required by the contract with the lab included in the report?	■ Yes ☐ No	*If no, indicate any exceptions:*

Completed by:	**Thet Naing**	Date:	**07/12/12**
Reviewed by:		Date:	

AC13-B9-6.0
AC13-B9-10.0
AC13-B9-15.0
AC13-B9-20.0
AC13-B8-6.0
AC13-B8-10.0
AC13-A8-10.0
AC13-B8-15.0
AC13-B8-20.0
SW8a-0.5
SW8a-2.0
SW8b-0.5
SW8b-2.0
SW4b-0.5
SW4b-2.0
SW4a-0.5
SW4a-2.0
QCEB-061912

amec

INORGANIC DATA ASSESSMENT SUMMARY

Project Information

Project Name:	**Crown City Plating**	Lab Name:	**cALSCIENCE**
Project Number:	**NB1016075A**	Lab Report Number:	**12-06-1318**
Reviewer's Signature:	Thet Naing	Number of Samples:	**1**
Review Date:	**07/**	Matrix:	**water**

/

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:			**Hex. Chrome**	
Other descriptors:			**719**	
1. Preservation/hold times			**O**	
2. Calibrations				
3. Blanks			**O**	
4. Interference check sample				
5. Lab control sample			**O**	
6. Duplicate sample analysis			**M3**	
7. Spike sample analysis			**M3**	
8. ICP serial dilution				
9. ICP-MS tune analysis				
10. ICP-MS internal standards				
11. Field duplicates			**O**	
12. Overall assessment			**O**	

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required
M1	%Rs for MS1 and MSD1 for Zn associated with QC batch T2C0710 were above QC limits. Remaining analyses were within limits.	Data qualification was not necessary.
	%Rs for MS1 and MS2 and RPD for MS2-MSD2 pair for Cu associated with QC batch T2C0710 were above QC limits.	Cu was detected above reporting limits in all associated soil samples. Cu results were qualified with J flags.
	%Rs for MS2 and MSD2 for Sb associated with QC batch T2C0710 were below QC limits. Remaining analyses were within limits.	Data qualification was not necessary.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C0811 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for MSD1 and/or MSD2 for Ba, Be, Cr, Ni and Zn %Rs for MSD1 and/or MSD2 associated with QC batch T2C0811 were below QC limits. Remaining analyses were within QC limits.	Data qualification was not necessary.
	%Rs for MS and/or MSD analyses for Zn, Be, Co and Ba associated with QC batch T2C1213 were outside QC limits. Remaining analyses were within QC limits.	Data qualification was not necessary.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C1213 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for all MS and MSD analyses for Sb associated with QC batch T2C1303 were below QC limits.	Sb results for associated soil samples were qualified with either J- or UJ flags.
	%Rs for both MS and MSD analyses for Ba and Tl %Rs associated with QC batch T2C1309 were below QC limits.	The QC batch was associated with equipment blank samples. Ba and Tl results for associated water sample results were qualified with UJ flags,.
M2	%Rs for MS1 and MS2 for Hg associated with QC batch T2C0813 were outside QC limits. RPDs for both MS and MSD pairs were above QC limits.	Hg results associated with this QC batch were qualified with J flags.
M3	%Rs for all MS and MSD analyses for Cr(VI) associated with QC batch T2C1207 and T2C1305 were below QC limits. RPD for one of the MS/MSD pairs in each batch was also above QC limits.	Cr(VI) results for associated soil samples were qualified with either J- or UJ flags.

ORGANIC DATA ASSESSMENT SUMMARY

Project Information			
Project Name:	**Crown City Plating**	Lab Name:	**Calscience**
Project Number:	**NB1016075A**	Lab Report Number:	**12-06-1318**
Reviewer's Signature:	Thet Naing	Number of Samples:	**21**
Review Date:	**07/12/12**	Matrix:	**Soil**

Assessment Summary

Using the codes O, M, Z, and X described below, complete the table for a single quality control batch or sample delivery group. Identify comments by means of a footnote, e.g. M(2), describe in the space provided.

Method Name:	**Perchlorate**			
Method Number:	**314.0**			
1. Preservation/hold times	**O**			
2. GC/MS tune, instr. performance				
3. Calibrations				
4. Blanks	**O**			
5. Surrogates				
6. Matrix spike/dup	**O**			
7. Lab QC samples	**O**			
8. Internal standards				
9. Compound ID				
10. System performance				
11. Field duplicates				
12. Overall assessment	**O**			

Assessment Codes:

O = No quality controls (QC) problems were identified for these criteria.

M = The results are qualified due to QC problems. The quantitative results will be qualified with a QC flag indicating that the results are estimated due to error greater than specified in the method.

Z = The results are unacceptable due to gross QC problems. The results will be qualified as rejected (R).

X = QC problems were identified, but they do not affect the results, or the reviewer is not certain of the effect on the results; or supporting documentation or data is not present in the laboratory data package.

Assessment Code	Description	Action Required

APPENDIX H

Tables, Figures, and Attachments
Supporting Background Evaluation of Arsenic

ATTACHMENT H-1
Statistical Tests - Site Versus Background Concentrations of Arsenic (ProUCL Output)
Crown City Plating Company
El Monte, California

Gehan Test for Arsenic

Gehan Site vs Background Comparison Test for Data Sets with Non-Detects

User Selected Options

From File	Sheet1.wst
Full Precision	OFF
Confidence Coefficient	95%
Substantial Difference (S)	0
Selected Null Hypothesis	Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)
Alternative Hypothesis	Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: Site_Arsenic
Background Data: Background_Arsenic

Raw Statistics

	Site	Background
Number of Valid Data	158	7
Number of Non-Detect Data	37	0
Number of Detect Data	121	7
Minimum Non-Detect	2	N/A
Maximum Non-Detect	50	N/A
Percent Non detects	23.42%	0.00%
Minimum Detected	1.6	3
Maximum Detected	130	6.2
Mean of Detected Data	5.65	4.743
Median of Detected Data	4.4	4.9
SD of Detected Data	11.6	1.01

Site vs Background Gehan Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Gehan z Test Value	-1.743
Critical z (0.95)	1.645
P-Value	0.959

Conclusion with Alpha = 0.05
Do Not Reject H0, Conclude Site <= Background
P-Value >=alpha (0.05)

ATTACHMENT H-1
Statistical Tests - Site Versus Background Concentrations of Arsenic (ProUCL Output)
Crown City Plating Company
El Monte, California

Quantile Test for Arsenic

Quantile Site vs Background Comparison Hypothesis Test for Data Sets with Non-Detects

User Selected Options

From File	Sheet1.wst
Full Precision	OFF
Confidence Coefficient	95%
Null Hypothesis	Site or AOC Concentration Less Than or Equal to Background Concentration (Form 1)
Alternative Hypothesis	Site or AOC Concentration Greater Than Background Concentration

Area of Concern Data: Arsenic
Background Data: BACKArsenic

Raw Statistics

	Site	Background
Number of Valid Data	158	7
Number of Non-Detect Data	37	0
Number of Detect Data	121	7
Minimum Non-Detect	2	N/A
Maximum Non-Detect	50	N/A
Percent Non detects	23.42%	0.00%
Minimum Detected	1.6	3
Maximum Detected	130	6.2
Mean of Detected Data	5.65	4.743
Median of Detected Data	4.4	4.9
SD of Detected Data	11.6	1.01

Quantile Test

H0: Site Concentration <= Background Concentration (Form 1)

Approximate R Value (0.056)	0
Approximate K Value (0.056)	0
R Value Adjusted for Ties in Data	1
K Value Adjusted for Ties in Data	1
Number of Site Observations in 'R' Largest	1
Calculated Alpha	1

Conclusion with Alpha = 0
Reject H0, Conclude Site Concentration > Background Concentration

TABLE H-1

On-site Soil Sample Results for Arsenic[1]

Crown City Plating Company

El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
AOC 1	AC01-03-0.5	0.5	02/11/10	3.5
	AC01-04-0.5	0.5	02/11/10	3.9
	AC01-05-0.5	0.5	02/12/10	<4.0[2]
	AC19-01-0.5[3]	0.5	02/12/10	<4.0
	AC01-06-0.5	0.5	02/11/10	3.5
	AC01-07-6	6.0	03/04/10	4.7
	AC01-08-0.5	0.5	03/05/10	4.8
	AC01-09-0.5	0.5	03/05/10	2.6
	AC01-10	0.5	07/21/10	<4.0
	AC01-11	0.5	07/21/10	<20
	AC01-12	0.5	07/21/10	<4.0
	AC01-12D[3]	0.5	07/21/10	<4.0
	AC01-13	0.5	07/21/10	4.2
	AC01-14	0.5	07/21/10	<4.0
	AC01-15	0.5	07/21/10	<4.0
	AC01-16	0.5	07/21/10	<4.0
	AC01-17	0.5	07/21/10	<20
	AC01-18	0.5	07/21/10	<4.0
	AC01-19	0.5	07/21/10	<4.0
	AC01-20	0.5	07/21/10	<4.0
	AC01-B1-1.0	1	03/01/12	4.7
	AC01-B1-5.0	5	03/01/12	3.5
	AC01-B1-10.0	10	03/01/12	2.3
	AC01-B2-1.0	1	03/01/12	4.0
	AC01-B2-5.0	5	03/01/12	2.3
	AC01a-B1-5.0[3]	5	03/01/12	2.2
	AC01-B2-10.0	10	03/01/12	3.0
	AC01-B3-1.0	1	03/01/12	4.5
	AC01-B3-5.0	5	03/01/12	2.1
	AC01-B3-10.0	10	03/01/12	<2.0
	AC01a-B1-10.0[3]	10	03/01/12	<2.0
	AC01-B3-15.0	15	03/01/12	<2.0
	AC01-B4-1.0	1	03/01/12	5.0
	AC01-B4-5.0	5	03/01/12	2.3
	AC01-B4-10.0	10	03/01/12	2.0
	AC01-B5-1.0	1	03/05/12	3.7
	AC01-B5-5.0	5	03/05/12	3.0
	AC01-B5-10.0	10	03/05/12	<2.0
	AC01-B6-1.0	1	03/05/12	4.3
	AC01-B6-5.0	5	03/05/12	2.1
	AC01-B6-10.0	10	03/05/12	<2.0
	AC01a-B2-10.0[3]	10	03/05/12	<2.0
AOC 2	AC02-01-0.5	0.5	02/12/10	5.0
	AC02-02-0.5	0.5	02/12/10	5.1

TABLE H-1

On-site Soil Sample Results for Arsenic[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
AOC 3	AC03-01-0.5	0.5	02/12/10	5.0
	AC18-01-0.5[3]	0.5	02/12/10	4.6
AOC 4	AC04-01-0.5	0.5	02/11/10	4.7
	AC04-02-0.5	0.5	02/11/10	5.9
AOC 5	AC05-01-6	6.0	03/04/10	<4.0
	AC05-02-0.5	0.5	03/04/10	4.4
	AC05-03-5.5	5.5	03/04/10	<4.0
	AC5-04	0.5	07/21/10	<50
	AC5-05	0.5	07/21/10	4.5
	AC5-06	0.5	07/21/10	<4.0
	AC5-07	0.5	07/21/10	6.2
	AC5-08	0.5	07/21/10	<4.0
	AC5-08D[3]	0.5	07/21/10	<4.0
	AC05-B1-1.0	1	03/02/12	4.4
	AC05-B1-5.0	5	03/02/12	4.7
	AC05-B1-10.0	10	03/02/12	<2.0
	AC05-B2-1.0	1	03/02/12	4.8
	AC05a-B1-1.0[3]	1	03/02/12	4.7
	AC05-B2-5.0	5	03/02/12	4.4
	AC05-B2-10.0	10	03/02/12	3.9
	AC05-B3-1.0	1	03/02/12	4.9
	AC05-B3-5.0	5	03/02/12	4.3
	AC05-B3-10.0	10	03/02/12	3.3
	AC05-B4-1.0	1	03/02/12	3.6
	AC05-B4-5.0	5	03/02/12	4.5
	AC05-B4-10.0	10	03/02/12	3.9
	AC05-B5-1.0	1	03/02/12	2.2
	AC05-B5-5.0	5	03/02/12	4.0
	AC05-B5-10.0	10	03/02/12	3.9
	AC05-B5-15.0	15	03/02/12	2.7
	AC05-B5-20.0	20	03/02/12	1.4J
	AC05-B6-1.0	1	03/05/12	10
	AC05-B6-5.0	5	03/05/12	4.5
	AC05-B6-10.0	10	03/05/12	4.5
AOC 6	AC06-01-0.5	0.5	02/12/10	4.3
	AC06-01-5.5	5.5	02/12/10	4.1
	AC06-02-0.5	0.5	02/12/10	<20
	AC06-02-4.5	4.5	02/12/10	<4.0
	AC06-03	0.5	07/21/10	5.3
	AC06-03D[3]	0.5	07/21/10	5.7
AOC 7	AC07-01-0.5	0.5	02/11/10	6.5
	AC07-02-0.5	0.5	02/11/10	130
	AC07-02-5	5.0	03/05/10	5.0
	AC07-03-1.0	1	03/08/12	7.4J
	AC07-03-5.0	5	03/08/12	4.1J

TABLE H-1

On-site Soil Sample Results for Arsenic[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
AOC 7	AC07-04-1.0	1	03/08/12	9.9J
	AC07-04-5.0	5	03/08/12	3.7J
	AC07-05-1.0	1	03/08/12	7.0
	AC07-05-5.0	5	03/08/12	4.5
	AC07-06-1.0	1	03/08/12	7.6J
	AC07-06-5.0	5	03/08/12	4.9J
AOC 8	AC08-01-5.5	5.5	03/04/10	4.1
AOC 9	AC09-01-3.5	3.5	02/11/10	5.0
	AC09-02-3.5	3.5	02/12/10	4.4
	AC09-03	0.5	07/21/10	13
	AC09-04	0.5	03/08/12	3.6J
	AC09-05	0.5	03/08/12	3.8J
	AC09-06	0.5	03/08/12	4.7J
	AC09-07	0.5	03/08/12	7.0J
	AC09a-01[3]	0.5	03/08/12	8.6J
	AC09-08	0.5	03/08/12	5.7J
	AC09-09	0.5	03/08/12	4.9J
AOC 10	AC10-01-0.5	0.5	02/12/10	4.6
	AC20-01-0.5[3]	0.5	02/12/10	4.6
	AC10-02-0.5	0.5	02/12/10	5.5
AOC 11	AC11-01-0.5	0.5	02/12/10	4.7
AOC 12	AC12-01-5	5.0	02/12/10	<4.0
	AC12-02-5	5.0	02/12/10	<4.0
AOC 13	AC13-01-0.5	0.5	02/11/10	<2.0
	AC13-02-0.5	0.5	02/11/10	<20
	AC03-02-5.5[5]	5.5	03/03/10	<4.0
	AC13-03-0.5	0.5	02/11/10	2.3
	AC13-04-0.5	0.5	02/11/10	3.3
	AC13-05	0.5	07/21/10	<4.0
	AC13-06	0.5	07/21/10	<4.0
	AC13-B1-1.0	1	03/06/12	4.2
	AC13-B1-5.0	5	03/06/12	3.4
	AC13-B1-10.0	10	03/06/12	2.9
	AC13-B1-13.0	13	03/06/12	2.6
	AC13-B2-1.0	1	03/05/12	3.0
	AC13-B2-5.0	5	03/05/12	<2.0
	AC13-B2-10.0	10	03/05/12	2.2
	AC13-B3-1.0	1	03/06/12	16
	AC13a-B1-1.0[3]	1	03/06/12	12
	AC13-B3-5.0	5	03/06/12	8.5
	AC13-B3-10.0	10	03/06/12	1.9J
	AC13-B4-1.0	1	03/05/12	<2.0
	AC13-B4-5.0	5	03/05/12	3.2
	AC13-B4-10.0	10	03/05/12	<2.0
	AC13-B5-1.0	1	03/05/12	3.2

TABLE H-1

On-site Soil Sample Results for Arsenic[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
AOC 13	AC13-B5-5.0	5	03/05/12	3.2
	AC13-B5-10.0	10	03/05/12	3.1
	AC13-B6-1.0	1	03/06/12	3.3
	AC13-B6-5.0	5	03/06/12	2.8
	AC13-B6-10.0	10	03/06/12	1.9J
	AC13-B7-1.0	1	03/06/12	1.9J
	AC13-B7-5.0	5	03/06/12	2.3
	AC13a-B1-5.0[3]	5	03/06/12	2.2
	AC13-B7-10.0	10	03/06/12	1.6J
	AC13-B8-4.0	4	06/19/12	5.0
	AC13-B8-6.0	6	06/19/12	4.4
	AC13-B8-10.0	10	06/19/12	2.5
	AC13-A8-10.0[3]	10	06/19/12	2.8
	AC13-B8-15.0	15	06/19/12	1.3J
	AC13-B8-20.0	20	06/19/12	0.80J
	AC13-B9-4.0	4	06/19/12	3.2
	AC13-B9-6.0	6	06/19/12	4.0
	AC13-B9-10.0	10	06/19/12	2.3
	AC13-B9-15.0	15	06/19/12	1.1J
	AC13-B9-20.0	20	06/19/12	1.5J
AOC 14	AC14-01-10	10.0	03/04/10	2.6
	AC14-01-15	15.0	03/04/10	2.1
	AC14-01-20	20.0	03/04/10	<2.0
AOC 15	AC15-01-0.5	0.5	03/03/10	4.0
	AC15-01-4.5	4.5	03/03/10	5.1
	AC15-02-0.5	0.5	02/11/10	<8.0
	AC15-02-2.5	2.5	02/11/10	<20
AOC 16	AC16-01-0.5	0.5	02/11/10	5.1
	AC16-02	0.5	07/21/10	<4.0
	AC16-03	0.5	07/21/10	<4.0
SB03	SB03-0.5	0.5	03/05/10	<8.0
Southeast Parking Lot	SW1	0.5	03/08/12	6.5
	SW2	0.5	03/08/12	5.6
	SW2a[3]	0.5	03/08/12	5.5
	SW3	0.5	03/08/12	5.2J
	SW4	0.5	03/08/12	8.9J
	SW4-2.0	2	06/19/12	4.0
	SW4-5.0	5	06/19/12	4.5
	SW4a-0.5[6]	0.5	06/19/12	3.8
	SW4b-0.5[6]	0.5	06/19/12	3.9
	SW5	0.5	03/08/12	5.6J
	SW6	0.5	03/08/12	4.7
	SW7	0.5	03/08/12	10
	SW8	0.5	03/08/12	6.7J
	SWA1[3]	0.5	03/08/12	5.4J

TABLE H-1

On-site Soil Sample Results for Arsenic[1]

Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Area Designation	Sample ID	Sample Depth (feet bgs)	Sample Date	Arsenic
Southeast Parking Lot	SW8-2.0	2	06/19/12	9.5
	SW8d-2.0[3]	2	06/19/12	7.4
	SW8-5.0	5	06/19/12	4.3
	SW8a-0.5[7]	0.5	06/19/12	5.2
	SW8b-0.5[7]	0.5	06/19/12	7.4
	SW9	0.5	03/08/12	5.3J

Notes

1. Samples analyzed for arsenic using U.S. EPA Method 6010B.
2. Not detected above laboratory reporting limit shown.
3. Duplicate sample identification:
- AC019-01-0.5 is duplicate sample of AC01-05-0.5.
- AC01-12D is duplicate sample of AC01-12.
- AC01a-B1-5.0 is duplicate sample of AC01-B2-5.0.
- AC01a-B1-10.0 is duplicate sample of AC01-B3-10.0.
- AC01a-B2-10.0 is duplicae sample of AC01-B6-10.0.
- AC18-01-0.5 is duplicae sample of AC03-01-0.5.
- AC5-08D is duplicae sample of AC5-08.
- AC05a-B1-1.0 is duplicate sample of AC05-B2-1.0.
- AC06-03D is duplicate sample of AC06-03.
- AC09a-01 is duplicate sample of AC09-07.
- AC20-01-0.5 is duplicate sample of AC10-01-0.5.
- AC13a-B1-1.0 is duplicate sample of AC13-B3-1.0.
- AC13a-B1-5.0 is duplicate sample of AC13-B7-5.0.
- AC13-A8-10.0 is duplicate sample of AC13-B8-10.0.
- SW2a is duplicate sample of SW2.
- SWA1 is duplicate sample of SW8.
- SW8d-2.0 is duplicate sample of SW8-2.0.
4. J = Result is an estimate.
5. Sample incorrectly identified as ACO3 on chain-of-custody form. Correct nomenclature should have been AC13.
6. Step-out locations for SW4.
7. Step-out locations for SW8.

TABLE H-2
Off-site Background Soil Sample Results for Arsenic [1]
Crown City Plating Company
El Monte, California

Results reported in milligrams per kilograms (mg/kg)

Sample ID	Sample Depth (feet)	Sample Date	Arsenic
AMEC Geomatrix (2010) samples			
BG1	2	03/04/10	**4.2**
BG2	2	03/04/10	**4.4**
BG3	2	03/04/10	**5.3**
BG4	2	03/04/10	**4.9**
AMEC (2012) samples			
BG5	1	03/08/12	**3.0**
BG6	1	03/08/12	**6.2**
BG7	1	03/08/12	**5.2**

Note
1. Samples analyzed for arsenic using U.S. EPA Method 6010B.

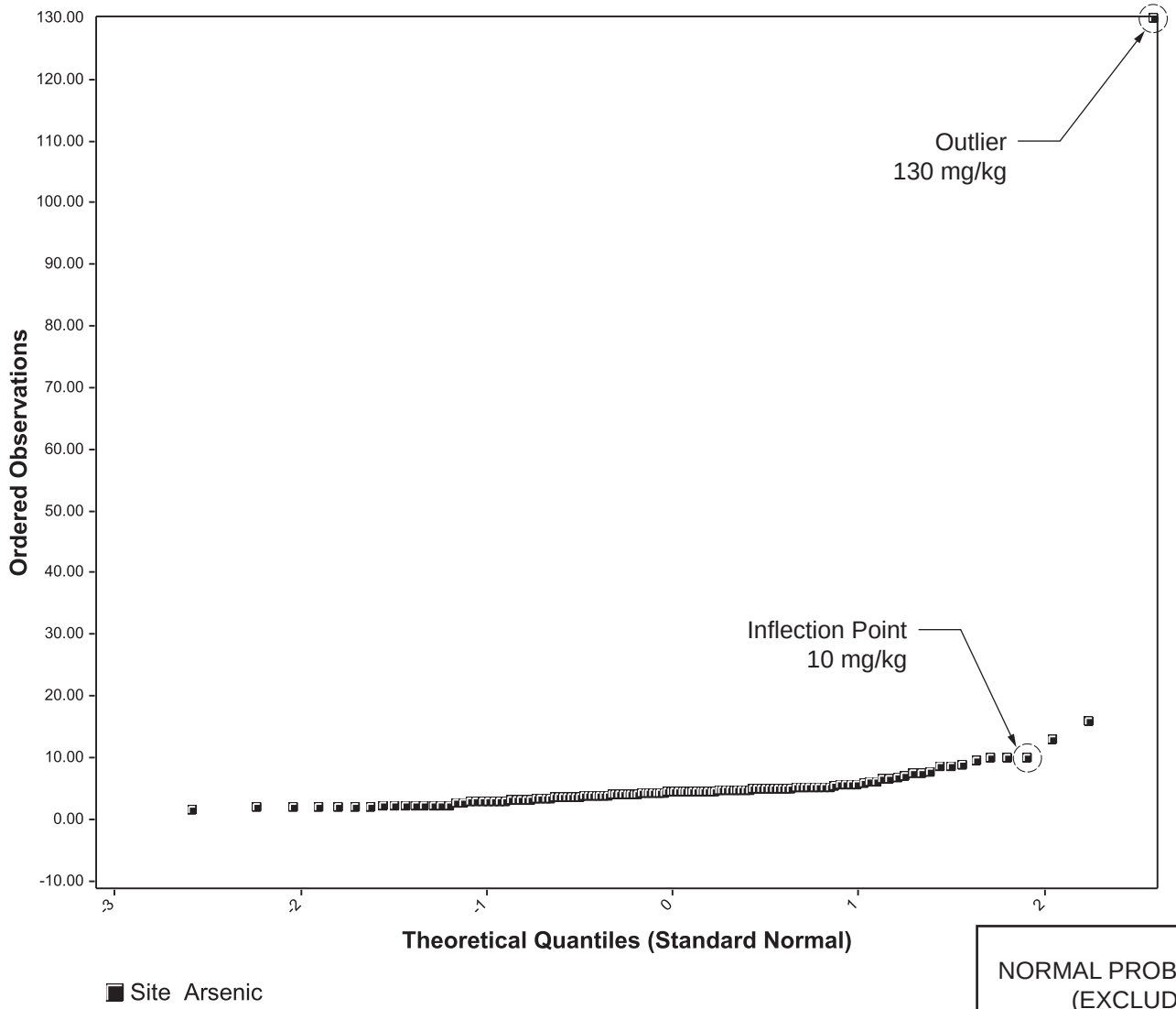
TABLE H-3
Summary of Statistical Testing Results[1]
Metals Detected in Soil
Crown City Plating Company
El Monte, California

	Summary Statistics - Site Soil									Summary Statistics - Background Soil									Conclusions of Statistical Tests		
Chemical	**Count**	**Number of Detections**	**Frequency of Detection**	**Minimum Reporting Limit (mg/kg)**	**Maximum Reporting Limit (mg/kg)**	**Minimum Detection (mg/kg)**	**Maximum Detection (mg/kg)**	**Mean of Detected Data (mg/kg)**	**Median of Detected Data (mg/kg)**	**Count**	**Number of Detections**	**Frequency of Detection**	**Minimum Reporting Limit (mg/kg)**	**Maximum Reporting Limit (mg/kg)**	**Minimum Detection (mg/kg)**	**Maximum Detection (mg/kg)**	**Mean of Detected Data (mg/kg)**	**Median of Detected Data (mg/kg)**	**Gehan Test**	**Quantile Test**	**COPC?**
Arsenic	158	121	77%	2.0	50	1.6	130	5.65	4.4	7	7	100%	NA	NA	3	6.2	4.743	4.9	Site <= Background	**Site > Background**	**Yes**

Note
1. The results of statistical testing (as ProUCL version 4.1.01 output) are provided in Attachment H-1.

Abbreviations
COPC = chemical of potential concern
mg/kg = milligrams per kilogram

S:\NB10\16075A_Q-Q plot for Site_Arsenic_noNDs_outlier: Figure 1.ai



Site Arsenic

N = 128

Mean = 5.6008

Sd = 11.2831

Slope = 4.4487

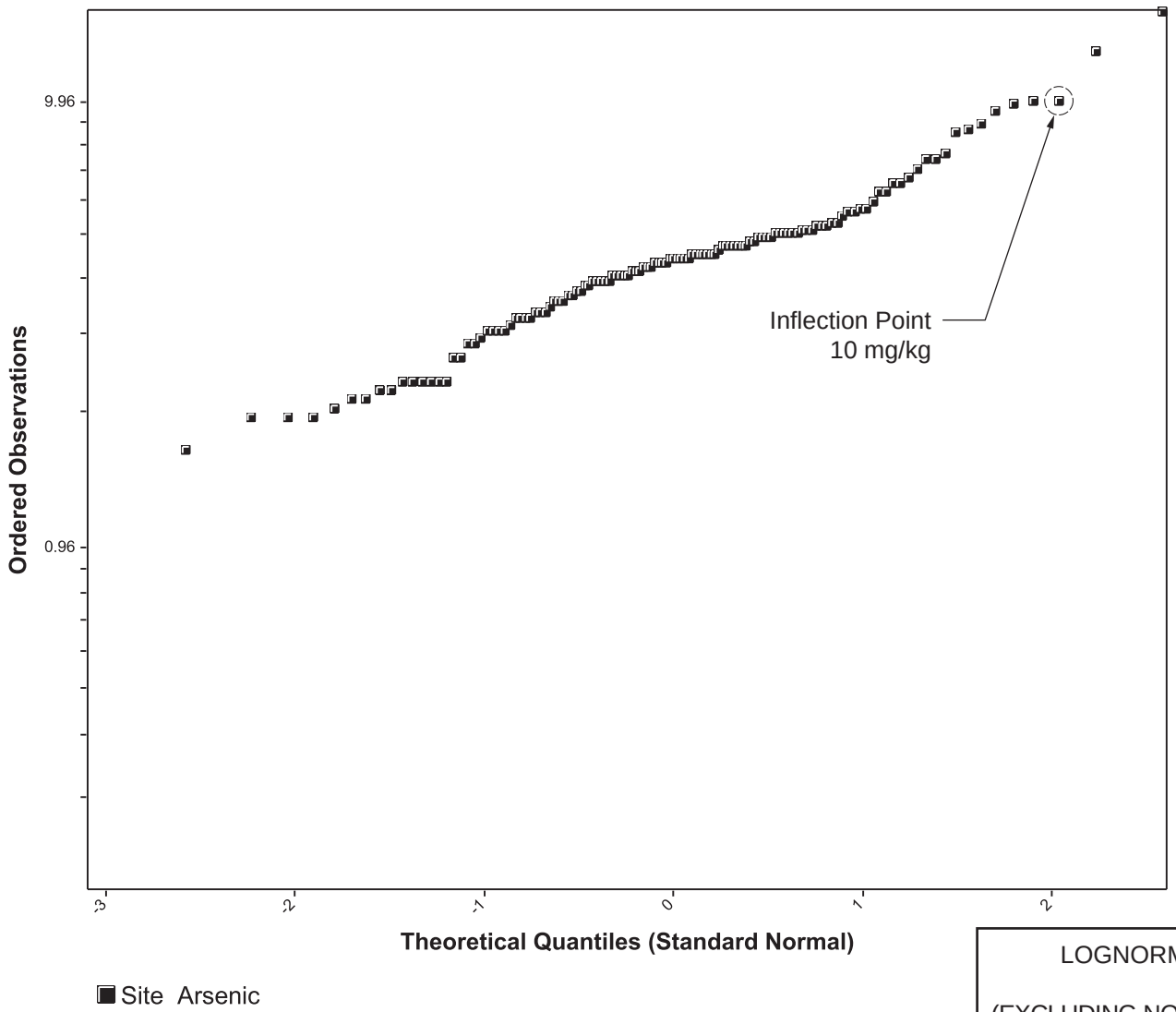
Intercept = 5.6008

Correlation, R = 0.3908

NORMAL PROBABILITY PLOT FOR SITE ARSENIC
(EXCLUDING NON-DETECT VALUES)
Crown City Plating Company
El Monte, California

By: BW	Date: 08/23/2012	Project No.	NB1016075A
amec		Figure	1

S:\NB10\16075A_Q-Q Plot for Site_ArsenicnoNDs: Figure 2.ai



Site Arsenic

N = 127

Mean = 4.6213

Sd = 2.1293

Slope = 1.9387

Intercept = 4.6213

Correlation, R = 0.9024

LOGNORMAL PROBABILITY PLOT FOR
SITE ARSENIC
(EXCLUDING NON-DETECT VALUES AND OUTLIERS)
Crown City Plating Company
El Monte, California

By: BW	Date: 08/23/2012	Project No.	NB1016075A
amec		Figure	2

APPENDIX I

Preliminary Work Scope for Soil Vapor Extraction Pilot Test

SOIL VAPOR EXTRACTION PILOT TEST WORK PLAN

Former Crown City Plating Company

El Monte, California

Prepared for:

California Department of Toxic Substances Control
9211 Oakdale Avenue
Chatsworth, California 91311

Prepared by:

AMEC
121 Innovation Drive, Suite 200
Irvine, California 92617-3094
(949) 642-0245

October 22, 2012

Project No. NB1016075A

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Figure 7 Area of PCE and TCE Impacted Soil Gas from Depth of 15 to 80 Feet

APPENDIXES

Appendix A Historic Soil Gas Sample Result Summary Tables and Figures

ACRONYMS

AMEC	AMEC Environment & Infrastructure, Inc.
CCPC	Crown City Plating Company
DTSC	Department of Toxic Substances Control
° F	degrees Fahrenheit
GAC	granular activated carbon
Hg	mercury
HP	horsepower
µg/L	micrograms per liter
PCE	tetrachloroethene
PD	positive displacement
PID	photoionization detector
RI	Remedial Investigation
ROI	radius of influence
SCAQMD	South Coast Air Quality Management District
SCFM	standard cubic feet per minute
SVE	soil vapor extraction
TCE	trichloroethene
VEW	vapor extraction well
VMP	vapor monitoring probe
VOC	volatile organic compound

DRAFT

SOIL VAPOR EXTRACTION PILOT TEST WORK PLAN
CROWN CITY PLATING COMPANY
El Monte, California

1.0 INTRODUCTION

On behalf of the California Department of Toxic Substances Control (DTSC), AMEC Environment & Infrastructure, Inc. (AMEC) has prepared this soil vapor extraction (SVE) pilot test work plan for soil vapor impacted by certain volatile organic compounds (VOCs) at the former Crown City Plating Company (CCPC) facility (the former CCPC facility or site). The former CCPC facility is located at 4350 Temple City Boulevard, El Monte, California (the project area or the Site; Figure 1). Several remedial investigations (RI) have been performed at the site. The findings and interpretations developed through these investigations are summarized in AMEC's *Data Gap Investigation Report*.

1.1 BACKGROUND

The results of the RI along with data collected during previous investigations at the site by others indicate two primary areas of VOC release to the subsurface (Figure 2). These areas were designated:

- Molding Department and Warehouse Building; and
- Southeast Portion of Central Parcel.

Tetrachloroethene (PCE) and trichloroethene (TCE) were found to be the primary VOCs in soil gas beneath these portions of the site. The lateral extent of VOC impact is adequately defined for purposes of this RI as shown on Figures 3 through 7. The approximate vertical extent of VOC impact is shown on Figure 7. Appendix A includes copies of historic soil gas sampling locations and summary tables of soil gas sampling analytical results.

The initial phase of the SVE pilot testing will focus on these primary impact areas indicated above, which are anticipated to yield the maximum benefit and meet the pilot test project objectives.

1.2 PILOT TEST OBJECTIVES

The overall purpose of the SVE pilot test is to:

1. address VOC-impacted soil and soil gas in the primary impact areas of the site;
2. evaluate the feasibility of using SVE technology; and

3. provide design data for a full-scale SVE remediation system at the site, if necessary.

Specific objectives for this pilot test work plan include:

- Evaluate radius of influence (ROI) for the various lithologic units encountered in the soils beneath the impacted areas. This data will be used to determine the appropriate number and spacing of extraction wells and vapor monitoring probes for expanded pilot test and/or full-scale SVE system operation, as appropriate;

- Evaluate applied vacuum versus flow measurements to determine the optimum SVE blower size requirements;

- Determine the mass loading rates of the contaminants from the extracted vapors to evaluate the appropriate vapor treatment alternatives; and

- Evaluate mass removal rates to develop preliminary estimates for the duration of remedial efforts.

2.0 INSTALLATION OF PILOT TEST WELLS

This section describes the procedures for installation of SVE wells. Field activities described herein will be completed under the direct supervision of a California professional geologist.

2.1 INSTALLATION OF PILOT TEST EXTRACTION WELLS

In general, the rationale for selection of pilot test vapor extraction wells (VEWs) and vapor monitoring probe (VMP) to be included in the SVE pilot test network include the following:

- Evaluation of the lateral and vertical extent of impact and concentrations of VOCs in the vadose zone;
- Evaluate placement of VEWs to capture the primary area of impacted soil vapors;
- Avoidance of existing utilities and rights-of-way;
- Installation of VEWs with an overlapping of 15 to 25 percent of assumed radius of influence (greater than 50 feet);
- Determine the maximum groundwater elevation to be expected and the design of appropriate VEW screen intervals; and
- Further evaluate the primary areas of VOC impact identified during the previous RI activities.

Considering the locations of the pre-existing nested vapor wells VW1 and VW3 (Figure 2), the screen intervals of these nested wells (probes at depths of 20, 40, 60 and 80 feet), and an estimated ROI of 50 feet for silty sand and sandly silt expected to be encountered in the pilot test study area, AMEC expects that by installing two VEWs inside the building (designated VEW-1 and VEW-2) and one VEW outside the building on the property (designated VEW-3), there will be sufficient coverage in the vadose zone to support this pilot test (Figure 7).

The VEWs will be drilled and installed using hollow-stem auger or limited access drilling equipment, as appropriate considering site constraints. The VEW borings will be drilled to depths of approximately 80 feet. Soil samples will be collected from the borings at intervals of 5 feet and will be described following the Unified Soil Classification System. Select soil samples will be analyzed for the following:

- VOCs using U.S. EPA Method 8260B.
- California Code of Regulations Title 22 metals (metals) using U.S. EPA Method 6010B/7471A.
- Hexavalent chromium using U.S. EPA Method 7196.

To confirm depth to groundwater, the first boring will be advanced to first encountered groundwater (estimated depth 90 feet). A grab groundwater sample will be collected from the soil boring using a temporary well constructed with a 5-foot long, 0.010-inch slotted PVC well screen and blank casing riser. Groundwater samples will be collected in a new disposable bailer and analyzed for the following:

- VOCs using U.S. EPA Method 8260B,
- metals using U.S. EPA Method 6010B/7471A, and
- Hexavalent chromium using U.S. EPA Method 7199.

In addition, two selected soil samples from varying lithologies in this same boring will be analyzed for the following physical parameters:

- Grain size distribution using ASTM Standard D4464;
- Moisture content using ASTM Standard D2216;
- Effective permeability by American Petroleum Institute Recommended Practice (API RP) 40;
- Effective soil porosity by ASTM Standard D425M;
- Bulk dry density ASTM Standard D2937; and
- Fraction organic carbon using Walkley-Black Method.

Once groundwater sampling is complete, the casing will be removed and the boring backfill with bentonite chip to depth near the bottom of the VEW.

Dual-completion VEWs will be constructed within each of the completed borings. The depth of the bottom screen will be placed at least 10 feet above groundwater. The preliminary SVE well design includes 2-inch diameter, Schedule 40 PVC casing and 0.020-inch slotted well screen. Each VEW will include two extraction wells consisting of 20 feet of slotted well screen. As noted on Table 1, AMEC estimates the screen interval for the shallow well will be between 10 and 30 feet, and between 50 to 70 feet for the deeper well. The final design of the VEW will be based on the lithology observed during while drilling and the depth to groundwater. Filter pack consisting of #3 sand will extend from approximately 1-foot below the bottom of the well screen to 1 to 2 feet above the well screen. The filter sand pack will be topped with approximately 2- to 3-foot thick bentonite chips hydrated in place, followed by bentonite grout. Surface will be completed with a 12-inch diameter traffic-rated well box set in concrete. Table 1 shows the proposed VEW construction information.

Throughout drilling activities, a portion of the soil samples from each sampling interval will be collected and placed in Ziploc bags. Soil samples will be allowed to volatilize for the purpose of headspace measurements using a photoionization detector (PID). The soil will be allowed to volatilize for approximately 10 minutes and PID headspace measurements will be collected and recorded on the boring logs.

Subsequently boring will be drilled to the bottom of the VEW and constructed similar to the first. Drilling equipment will be decontaminated between sampling intervals and locations via steam cleaning to reduce the potential for cross-contamination.

2.2 INSTALLATION OF PILOT TEST MONITORING PROBE

The soil vapor analytical results obtained during previous site assessments suggest high VOC concentrations near previous sample location SV-44 at the depth of 15 feet. In order to evaluate mass reduction and system performance over the course of pilot testing, installation of one multi-depth VMP (VMP-1) in the general location as SV-44 is proposed (Figure 7). This proposed location of VMP-1 is also between existing nested vapor wells VM1 and VM3, and between the three will provide adequate coverage of the pilot test study area.

The VMP will be constructed using a multi nested design similar to the existing wells. VMP-1 will consist of six-inch long stainless steel mesh screens located at the approximate centers of discrete 2 to 4-foot thick sand pack intervals. The screened sections will be installed at depths of 20, 40, 60 and 80 similar to the existing nested wells. Additional, a 10-foot depth probe will be installed to evaluation near-surface soil vapor conditions.

VMP-1 will be constructed using new, ¼-inch outside diameter nylaflow tubing with a 6-inch stainless steel screen. The tubing will be attached to a one-inch-diameter PVC blank pipe that serves as an anchor for the VMP screen zones. Filter pack consisting of #2/12 sand will extend from approximately 1 to 2 feet below the bottom of the screen to approximately 1 to 2 feet above the screen interval. The annular seal will consist of approximately 1-foot thick dry granular bentonite placed above the filter sand pack, followed by bentonite chips or granular bentonite hydrated in place. The VMP will be equipped at the ground surface with Swagelok® connectors to enable vacuum measurements and vapor sample collection. Concrete will be placed from the top of the uppermost seal to the ground surface and the wells will be completed at the ground surface with a monument well box that will be set in concrete.

2.3 SOIL-CUTTING GENERATION AND DISPOSAL

Soil cuttings generated during the drilling activities will be temporarily stored onsite in either 55-gallon drums or lined roll-off bins, depending on site constraints. Representative composite samples of the soil cuttings will be collected and sent to a State of California certified analytical

laboratory for the purpose of disposal profiling. Based on the analytical results, AMEC will coordinate with DTSC the disposal of these materials at an approved off-site facility.

3.0 INSTALLATION AND TESTING OF THE SVE PILOT TEST

This section describes installation and testing procedures for the aboveground SVE pilot test treatment system.

3.1 SYSTEM EQUIPMENT

The pilot test will be conducted using a trailer-mounted extraction blower and vapor-phase granular activated carbon (GAC) treatment system. The rental SVE system will be equipped with 10 to 20 horsepower (hp) positive displacement (PD) blower capable of applying up to 14 inches mercury (inches-Hg) vacuum and a maximum flow rate of 300 standard cubic feet per minute (scfm). The extracted vapors will be processed through two 1,000 or 2,000 pound GAC vessels connected in series. The SVE system will be operated under a “Various Location” South Coast Air Quality Management District (SCAQMD) permit.

3.2 BASELINE MEASUREMENTS AND SAMPLING

The initial phase of field testing will include the sampling of each of the new nested wells (VEW-1 through VEW-3 and VMP-1) and the two existing nested wells (VW1 and VW3). Soil gas samples will be collected following DTSC’s *Active Soil Gas Investigations* dated April 2012. The sampling will be performed under the supervision of AMEC using a mobile laboratory and tested for VOCs using U.S. EPA Method 8260B. Alternatively, soil gas samples may be collected in Summa canisters and analyzed for VOCs using U.S. EPA Method TO-15. This sampling will be performed to determine baseline conditions in these wells prior to SVE operations.

3.3 SVE PILOT TEST PROCEDURES

At the beginning of the pilot test, the blower will be operated at different applied vacuum levels to observe the resulting flow rates (step test). The relationship between the applied vacuum and the extracted flow will be used to determine the number of steps that would be used over the course of the pilot test. For each step, the blower will be operated at a constant vacuum and flow rate until subsurface vacuum readings in the monitoring wells stabilize. The vacuum will then be adjusted to proceed to the next step. The vacuum will be increased until the maximum flow or pressure rating of the blower will be attained. During the step testing, vacuum readings will be collected at the monitoring wells to evaluate the subsurface response from the extraction wells/ monitoring probe and estimate the ROI. Upon completion of the step test, a constant rate test at selected wells will be conducted to evaluate contaminant removal rates and the distribution of air flow within the contaminated zone.

3.3.1 Step Test, VEW-1

The pilot test will be initiated by conducting a step test on well VEW-1 (Figure 7) for each of the completion intervals. Each step test will be conducted in up to three flow and vacuum

increments until the maximum vacuum that can be obtained from the extraction well without exceeding the permitted flow requirement for the treatment system (300 scfm).

The step test will provide necessary information for design in identifying the relationship between applied vacuum and the resulting flow from an extraction well. The parameters monitored will include, but not limited to, the following:

- Subsurface vacuum readings from each interval of SVE wells and monitoring probes (inches-Hg or inches-H2O), using a mechanical or digital magnehelic gage. The SVE wells and monitoring probes will be fitted with airtight quick-connect fittings to collect soil vapor samples and to connect the magnehelic gage without loss of vacuum. Vacuum readings will also be collected from the system influent;
- PID readings (in parts per million by volume as Hexane) will be collected from each interval of SVE wells/ monitoring probes, from influent of both the primary and secondary carbon vessels, and from the effluent of the secondary carbon vessels;
- Flow (in scfm) from each interval of extraction wells, and influent to the carbon vessels;
- System pressures (pounds per square inch) at the influent and effluent of each carbon vessel to record potential pressure drops between the carbon vessels and the system; and
- Temperature in degrees Fahrenheit (ºF) at the blower outlet, before the carbon vessels.

A series of gauges that are capable of showing a range of 0.05 to 150 inches-H2O will be used during performance of the field test. Additional gauges with ranges of 0 to 5 and 0 to 15 inches-Hg will be used for vacuum (negative pressure) measurements at the system inlet and monitoring probes, and positive pressure measurements at the blower outlet. It is anticipated that at the initial phase of pilot testing, vacuum measurements will be recorded every 15 minutes for the first 1.5 hours and every 30 minutes thereafter until stable conditions are reached. However, these durations may be modified according to the physical responses observed in the field.

3.3.2 4-Hour Constant Rate Test, VEW-1 through VEW-3

The necessary vacuum and air flow rate for the constant rate tests will be chosen from the step test data. The constant rate test at each interval of wells VEW-1 through VEW-3 will be conducted to evaluate contaminant removal rates and the distribution of airflow within the contaminated zone. The 4-hour constant rate test will be performed by first connecting both intervals of VEW-1 to the treatment system. VEW-2, VEW-3 and all vapor probes will be used as monitoring points. The procedure is outlined below:

- The system will be started with the dilution valve for VEW-1 open 100 percent. The valve will be gradually closed until the vacuum at the well reached the optimum as defined in the step test.

- At the optimum vacuum and every 15 minutes during the first hour of operation and at 1, 2, and 4 hours thereafter, the following parameters will be collected:

    i. From the extraction well: wellhead vacuum, flow, temperature, relative humidity, and PID readings, as well as a Tedlar bag sample for analysis by EPA Method 8260B.

    ii. From each monitoring well: wellhead vacuum and PID readings.

- Repeat for wells VEW-2 and VEW-3, using passive wells and vapor probes as monitoring points.

During this phase, the SVE process parameters will be measured in accordance with the various location SCAQMD permit. At the completion of the 4-hour constant rate test, the following parameters will also be collected from the carbon inlet, midpoint, and effluent sampling ports: temperature, vapor flow, relative humidity, and pressure. Soil vapor samples will be collected in Tedlar bags from the influent to the SVE system, each interval of SVE wells, and in the middle and at the effluent of the GAC vessels. The samples will be submitted to a state-certified environmental laboratory for analysis of VOCs by U.S. EPA Method TO-15 or 8260B as permit requires.

3.3.3 Monthly Operation and Monitoring

Following the 4-hour constant rate test, the SVE systems will be operated continuously, and maintained and monitored on a periodic basis. The SVE system will extract from wells that exhibit the highest concentrations of VOCs based on operational data. The selected wells will be extracted with the highest possible flow rate that these wells can yield. Periodic sampling will be performed on the active extraction wells to establish a monthly VOC trend history. Based on the observed trends, extraction wells may alternate if levels (a) continue to drop in more than two consecutive sampling events and (b) continue to remain at low levels for more than two consecutive sampling events.

The length of the pilot study operations will be evaluated on an ongoing basis to determine if further system modifications are needed to transition to full-scale operations, or if the system is adequate for full-scale operations. The SVE systems will be operated with the intent to increase the mass recovery rate of VOC concentrations, but once the VOC reductions have reached asymptotic conditions and further operations are not technically and/or practically feasible, then a rebound test will be performed.

Operation and maintenance of the SVE systems are expected to include:

- Routine monitoring (daily to weekly) to check that the system is operating in accordance with design specifications and in accordance with the SCAQMD permit specific for system's equipment;
- Routine maintenance of the blower and associated equipment;
- Monthly PID and vacuum readings from individual VEWs and vapor monitoring probes;
- Monthly sampling of the soil-vapor treatment train at the influent, between carbon vessels, and effluent monitoring points in accordance with the SCAQMD permit requirements;
- Bi-monthly sampling of the individual VEWs and quarterly sampling of the vapor monitoring probes (including vacuum readings). Soil-vapor samples will be analyzed for VOCs using U.S. EPA Method 8260B or TO-15.

The pilot test operations for SVE systems will encompass an approximate six-month period to assess whether the systems are operating as intended. Information gathered during the pilot test will be used to modify the system operating parameters, monitoring and sampling schedule (if warranted).

3.3.4 Rebound Testing

AMEC will periodically evaluate operational data and historical soil vapor data to determine whether maximum achievable mass recovery has been reached. At the completion of the pilot test, when concentrations reach asymptotic levels, AMEC will perform a rebound test by collecting a complete set of system performance data from all vapor extraction wells and monitoring probes, approximately 4 weeks after shutdown of the SVE system. This data will include PID readings and vacuum applied to each well screen. Soil vapor samples will be collected from each vapor extraction well and monitoring probe using methods consisted with baseline sample (Section 3.2).

The rebound test results for each well interval will be analyzed to determine whether wells have reached a relatively stable equilibrium or whether rebound is still occurring. The relative concentrations in each well/probe in relation initial concentrations will also be considered to determine effectively of SVE. Additional sampling events, if needed, will be conducted based on the results of this rebound test.

If rebound testing indicates some areas with elevated VOC concentrations, the SVE system may be restarted in a configuration to optimize removal and treatment of those areas, depending on schedule and budget. Going forward, only those wells exhibiting relatively high

VOC concentrations will continue to be included in the soil gas monitoring program. If additional rebound sampling demonstrates sufficient removal of VOCs, soil vapor confirmation samples will be re-collected to evaluate VOC removal trends. The results of the DTSC protocol sampling will be used for the scale-up and design of expanded pilot test and/or full-scale SVE system, as warranted.

3.4 WASTE MANAGEMENT

At the completion of the SVE pilot test, condensate collected in the SVE system knockout tank, if any, will be labeled and temporarily stored on site prior to disposal at an approved facility. Granular activated carbon used during the pilot test will be removed and transported to a certified reactivation facility pending water characterization. AMEC will coordinate with DTSC the disposal of these materials at an approved off-site facility.

4.0 PILOT TEST DATA EVALUATION AND REPORTING

The data collected during the course of the pilot test will be used to estimate critical parameters for the scale-up and design of expanded pilot test and/or full-scale SVE system, as warranted. These parameters include applied vacuum and resulting flow rates, mass removal rates, and ROI of the VEWs.

4.1 PILOT TEST DATA EVALUATION

The relationship between applied vacuum at the VEWs and the resulting vapor extraction flow rates is indicative of the permeability of the soils in the vicinity of the well, and therefore, an important design parameter for the scale up and design of expanded pilot test and/or full-scale system. The vacuum–flow relationship allows for proper sizing of the SVE system blower.

The mass removal estimates, combined with other parameters, will provide key information regarding mass loading and the applicability and ultimate selection of vapor treatment technologies. In order to estimate the VOC mass removal rate, the following equation will be applied using the data (field measurements and soil-vapor analytical results) collected from the pilot test systems:

$$M_{VOC} = Q \times C_{VOC} \times t \times A$$

Where:

M_{VOC} = Daily mass of VOC removal (pounds/day)
Q = Influent volumetric flow rate (scfm)
C_{VOC} = Influent VOC concentrations (µg/L)
A = *Conversion factor*

The ROI for a given SVE well may be defined as the distance from the well at which sufficient soil vacuum is applied to induce effective subsurface flow and VOC removal. The subsurface vacuum measurements that will be collected from the monitoring points will be used to estimate ROI for each of the VEWs. The ROI is typically evaluated by plotting the vacuum readings collected at the monitoring points versus the distance from the extraction well. To evaluate the ROI, the observed vacuum response at each of the wells will be plotted on a graph against the distance from the extraction well. A best-fit linear trend line will be created for each of the data sets. The distance at the intercept of the best-fit trend line for the vacuum response at the monitoring points will be used as the estimated ROI and 1% of applied vacuum at the wellhead will used as the criteria for estimating ROI. Since multiple data sets will be created for differing applied vacuum levels, the ROI will be estimated as the average distance for the multiple intercepts of 1% of applied vacuum.

The applied vacuum and resulting flow rates, mass removal, and ROI estimates will be presented in a report that will be submitted to the DTSC. The report will include our recommendations for the design of expanded pilot test and/or full-scale SVE system for the site, as warranted.

4.2 SCHEDULE

Following approval of this work plan from DTSC, AMEC anticipates approximately 40 weeks to complete the described scope of work in general accordance with the following schedule (cumulative weeks):

1.	Well Installation	Week 0- 3
2.	Baseline Sampling	Week 4- 5
3.	Mobilizing and Installing SVE Rental Equipment	Week 6- 7
4.	Startup/ Step Testing and Optimization	Week 8- 12
5.	Constant Rate Pilot Testing	Week 13- 33
6.	Final Report (Installation and Evaluation)	Week 34- 40

Timely implementation of the above-described scope of work will allow optimization of the pilot scale SVE system and facilitate site remediation activities. (Note, the sequence of steps and schedule may differ from that listed here and some steps may not be necessary or may be modified based on contractual requirements and/or SVE pilot study plan objectives.)

TABLES

Table 1

Proposed SVE Pilot Test Vapor Extraction and Monitoring Well Construction Data

Crown City Plating Company
El Monte, California

Well ID	Well Type	General Location [1]	Casing Diameter & Material	Approximate Screen Interval (feet bgs) *	Total Depth (feet bgs)
VEW-1 [2]	Vapor Extraction	Inside the Warehouse	2" diameter, PVC	A: 10-30 B: 50-70	A: 30 B: 70 C: 90 [3]
VEW-2	Vapor Extraction	Inside the Molding Department	2" diameter, PVC	A: 10-30 B: 50-70	A: 30 B: 70
VEW-3	Vapor Extraction	Outside the Building	2" diameter, PVC	A: 10-30 B: 50-70	A: 30 B: 70
VMP-1 [4]	Vapor Monitoring	Inside the Warehouse	1" diameter, PVC	A: 5-10 B: 15- 20 C: 35- 40 D: 55- 60 E:75- 80	A: 10 B: 20 C: 40 D: 60 E: 80

Notes:
bgs – below ground surface
SVE – soil vapor extraction
VEW – vapor extraction well
VMP – vapor monitoring probe
PVC – polyvinyl chloride

1. Refer to Figure 7 of the SVE pilot test work plan for location of each VEW/VMP.

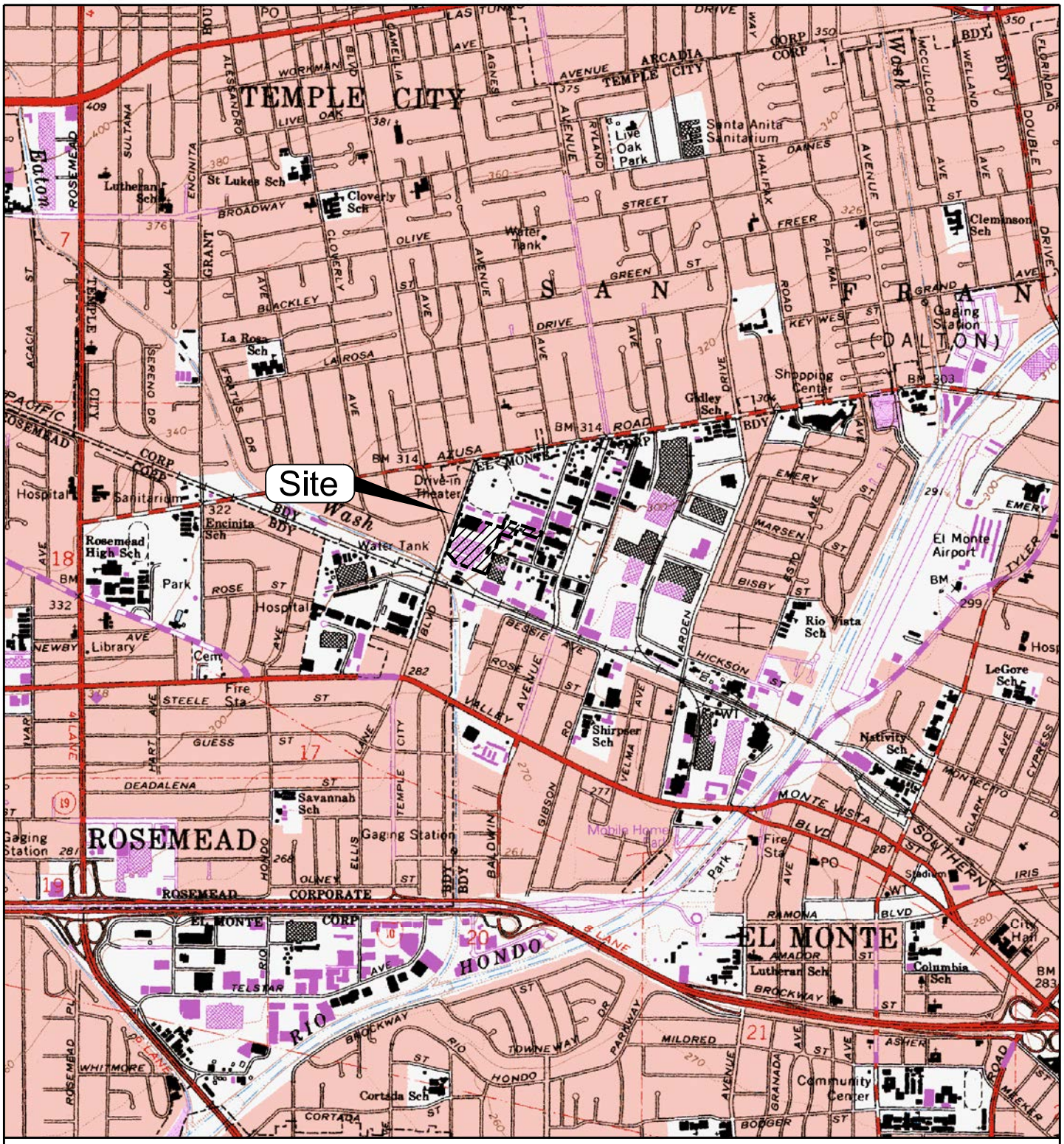
2. VEWs will be constructed using a nested design with 2-inch diameter PVC casing and well screen (0.020-inch slot width) and #3 Monterey sand filter packs separated by hydrated bentonite zones.

3. Boring will continue to first encounter groundwater estimate at depth of 90 feet.

4. The screened sections of VMP will be connected to the ground surface using 1/4-inch outside diameter nylaflow tubing with a 6-inch stainless steel screen attached to a one-inch-diameter PVC blank pipe.

*The proposed screen intervals may be modified based on the lithologic units encountered in the soils and physical responses observed in the field

FIGURES



Basemap modified from U.S.G.S. 7.5 minute Quadrangle Map El Monte 1966, California. Photo-revised 1981 and minor revision 1994.

Approximate Scale in Feet
0 1000 2000
0 300 600
Approximate Scale in Meters

SITE LOCATION MAP
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 09/20/2012	Project No: NB1016075A
amec		Figure 1

9/20/2012 1:22:39 PM jim.depoorter
01-Site Location Map
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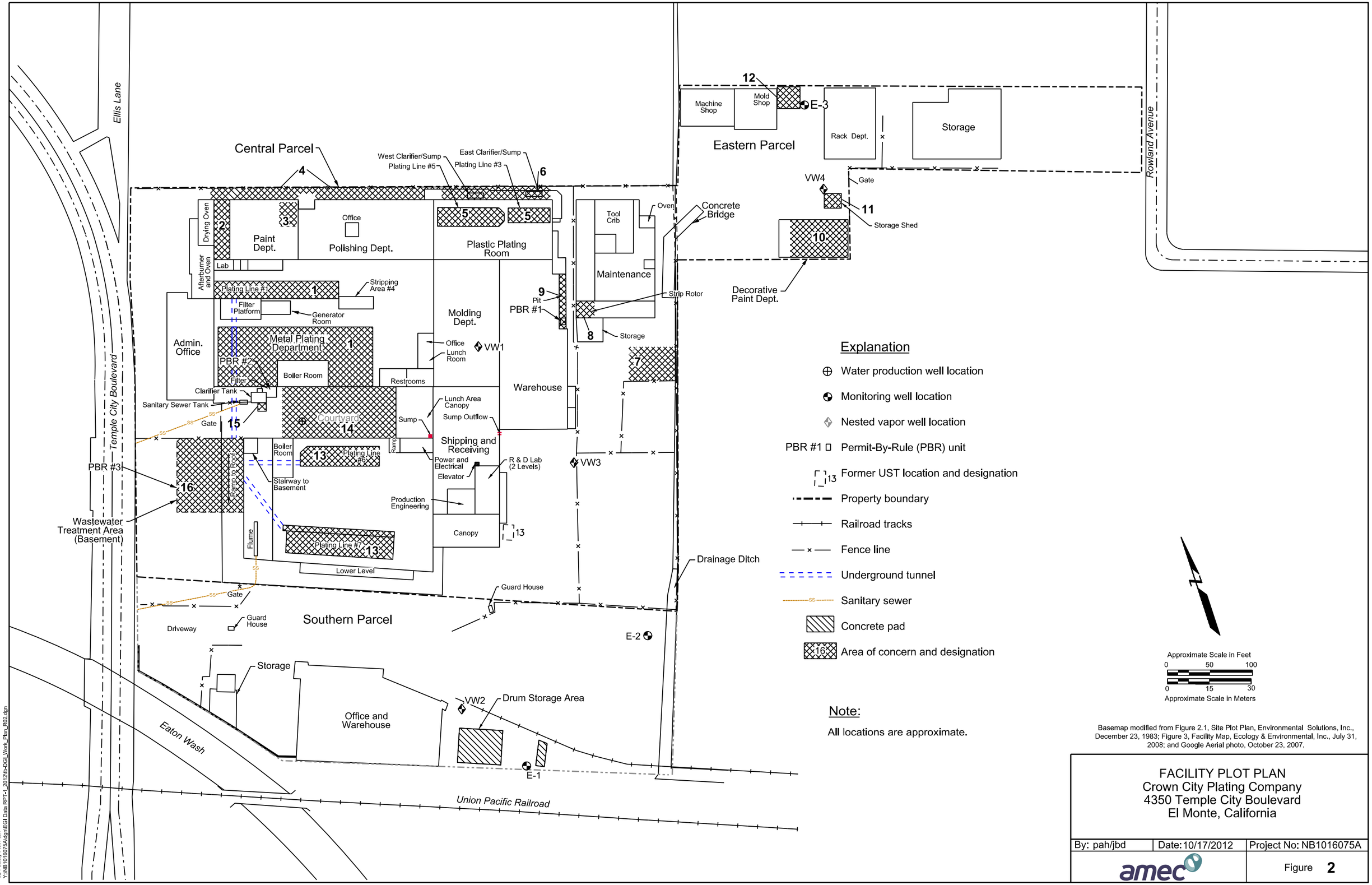

Basemap modified from Figure 2.1, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

FACILITY PLOT PLAN
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah/jbd	Date: 10/17/2012	Project No: NB1016075A
amec		Figure 2

10/18/2012 1:34:37 PM jlmcdepooter
02-Facility Plot Plan
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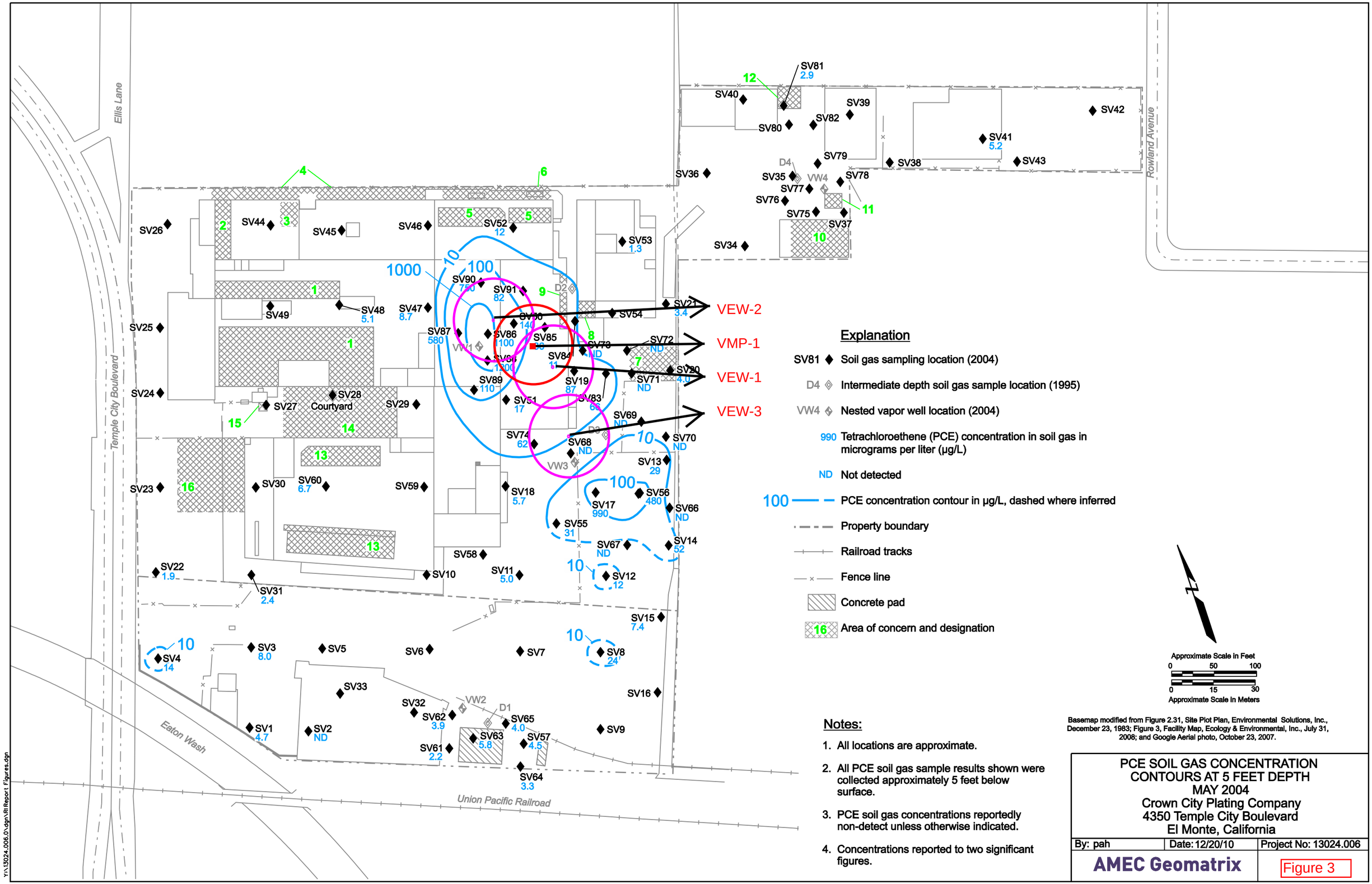
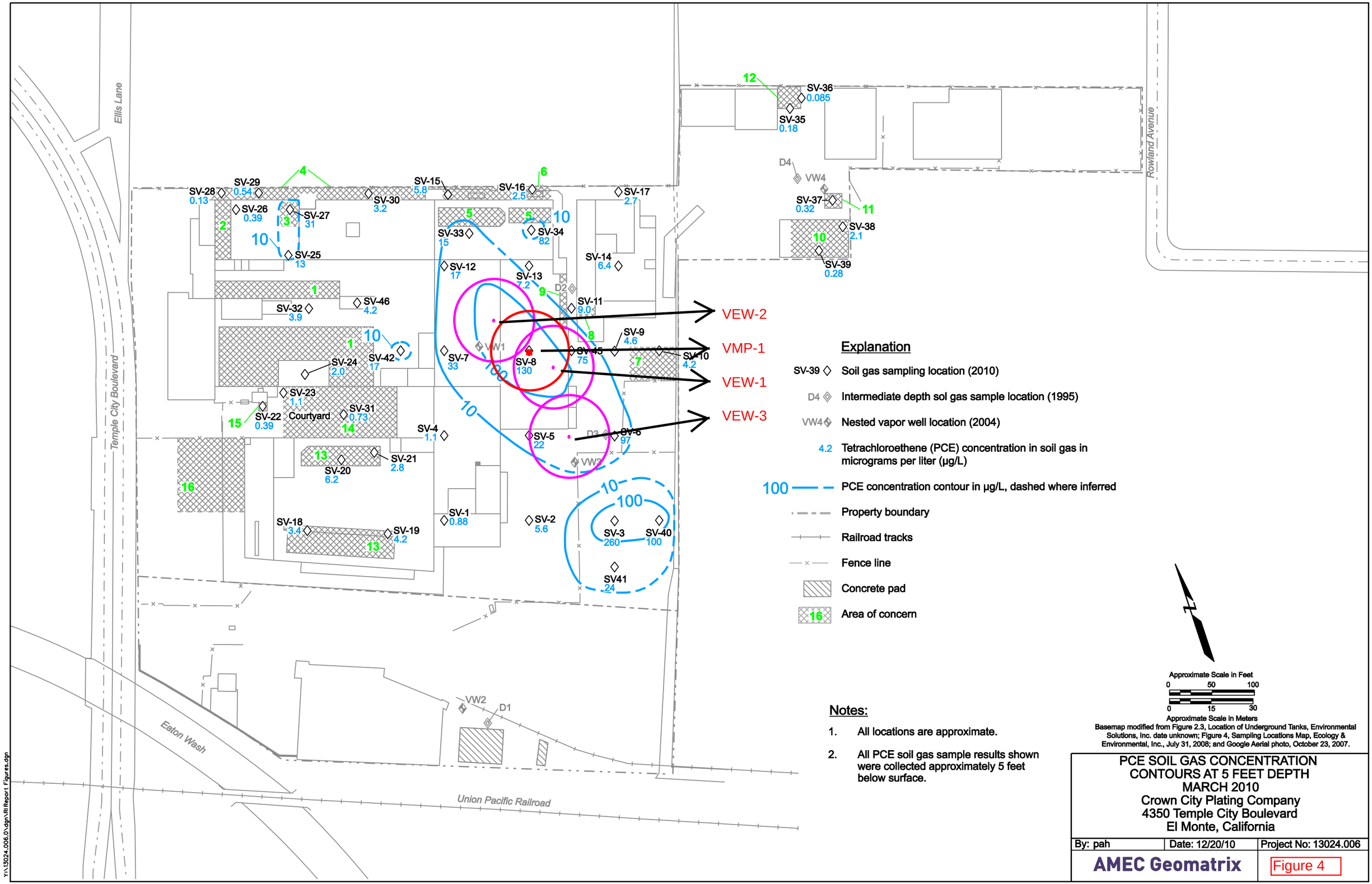

Ellis Lane
Temple City Boulevard
Rowland Avenue
Eaton Wash
Union Pacific Railroad
Courtyard
VEW-2
VMP-1
VEW-1
VEW-3
Explanation
SV81 Soil gas sampling location (2004)
D4 Intermediate depth soil gas sample location (1995)
VW4 Nested vapor well location (2004)
990 Tetrachloroethene (PCE) concentration in soil gas in micrograms per liter (µg/L)
ND Not detected
100 PCE concentration contour in µg/L, dashed where inferred
Property boundary
Railroad tracks
Fence line
Concrete pad
16 Area of concern and designation
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters
Basemap modified from Figure 2.31, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.
Notes:
1. All locations are approximate.
2. All PCE soil gas sample results shown were collected approximately 5 feet below surface.
3. PCE soil gas concentrations reportedly non-detect unless otherwise indicated.
4. Concentrations reported to two significant figures.
PCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MAY 2004
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California
By: pah
Date: 12/20/10
Project No: 13024.006
AMEC Geomatrix
Figure 3
Y:\13024.006.0\dgn\RI Report Figures.dgn

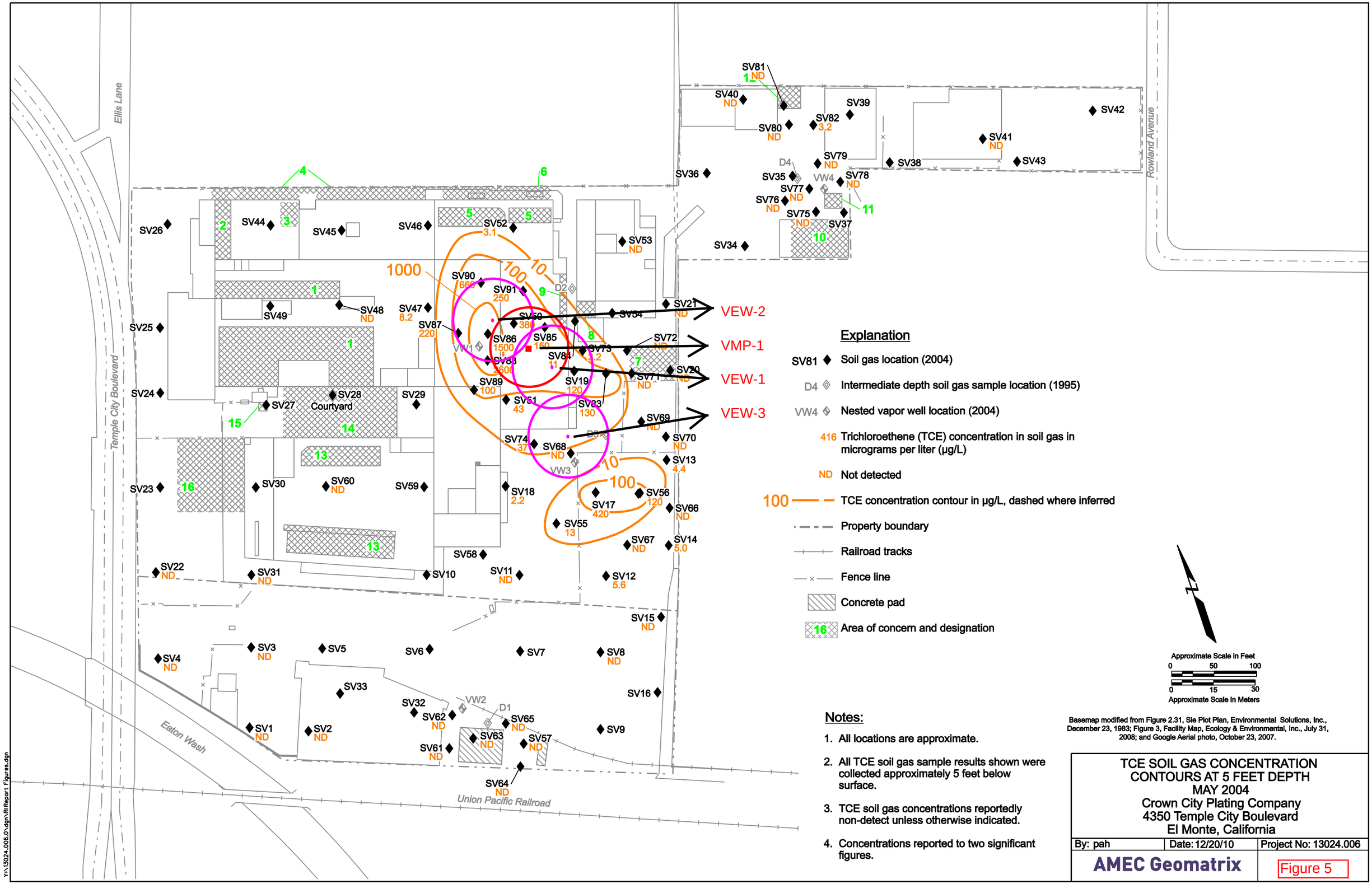


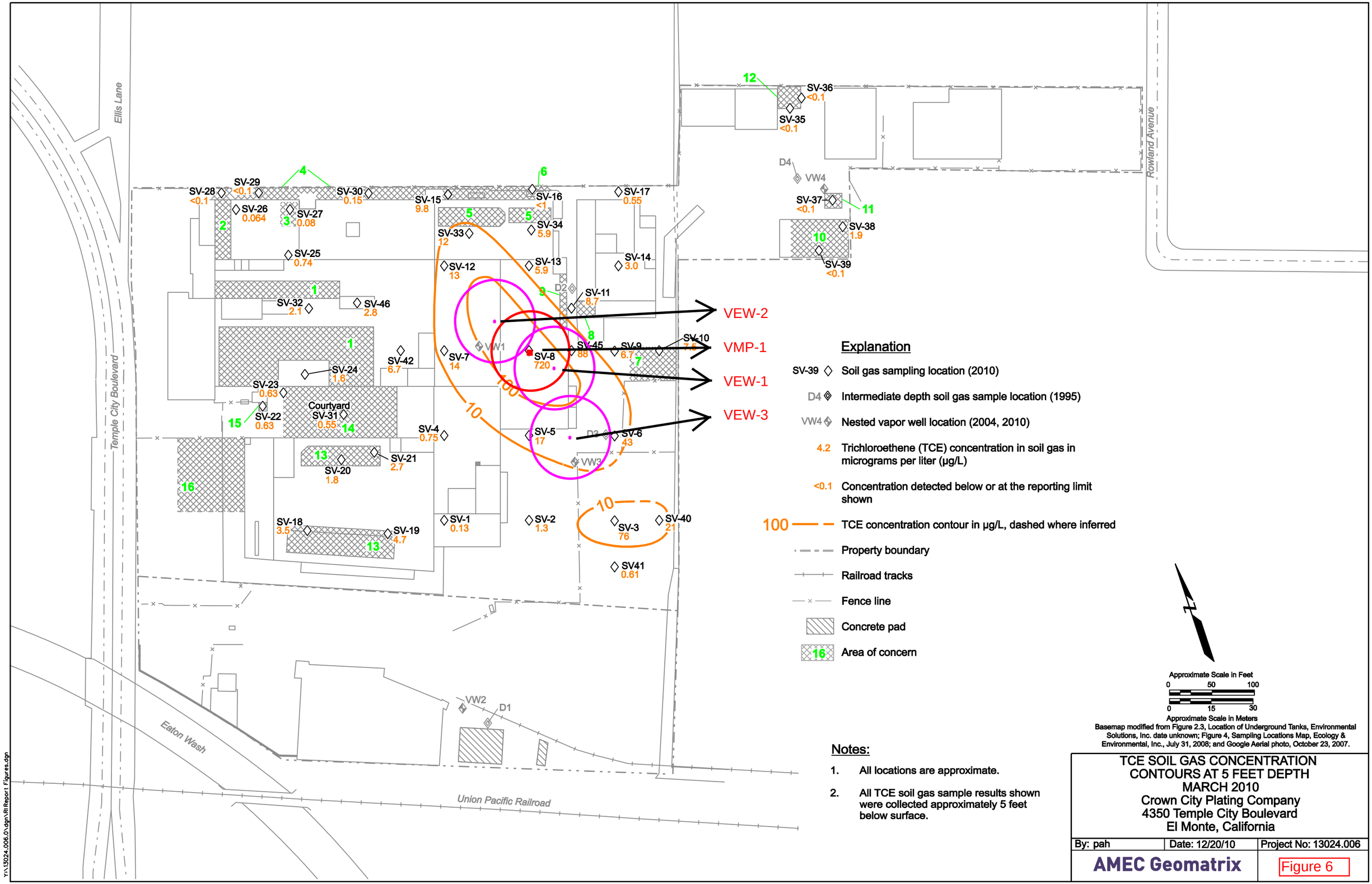
Notes:

1. All locations are approximate.
2. All PCE soil gas sample results shown were collected approximately 5 feet below surface.

PCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MARCH 2010
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 4


Ellis Lane
Temple City Boulevard
Rowland Avenue
Eaton Wash
Union Pacific Railroad
Courtyard
VEW-2
VMP-1
VEW-1
VEW-3
1000
100
10
Explanation
SV81 Soil gas location (2004)
D4 Intermediate depth soil gas sample location (1995)
VW4 Nested vapor well location (2004)
416 Trichloroethene (TCE) concentration in soil gas in micrograms per liter (µg/L)
ND Not detected
100 TCE concentration contour in µg/L, dashed where inferred
Property boundary
Railroad tracks
Fence line
Concrete pad
16 Area of concern and designation
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters
Basemap modified from Figure 2.31, Sle Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.
Notes:
1. All locations are approximate.
2. All TCE soil gas sample results shown were collected approximately 5 feet below surface.
3. TCE soil gas concentrations reportedly non-detect unless otherwise indicated.
4. Concentrations reported to two significant figures.
TCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MAY 2004
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California
By: pah
Date: 12/20/10
Project No: 13024.006
AMEC Geomatrix
Figure 5
Y:\13024.006.0\dgn\RI Report Figures.dgn

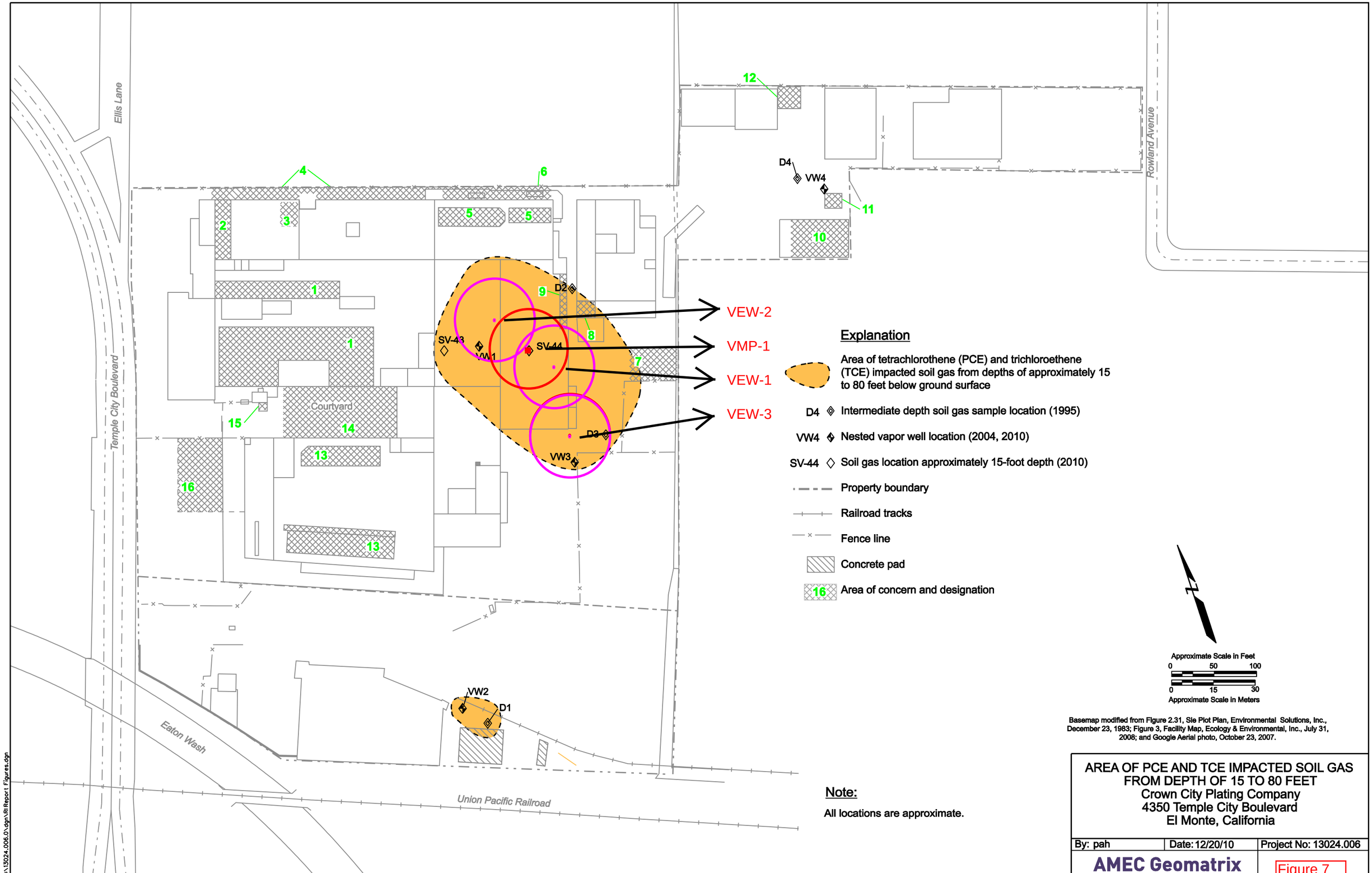


Notes:

1. All locations are approximate.
2. All TCE soil gas sample results shown were collected approximately 5 feet below surface.

TCE SOIL GAS CONCENTRATION CONTOURS AT 5 FEET DEPTH
MARCH 2010
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 6


Ellis Lane
Temple City Boulevard
Rowland Avenue
Eaton Wash
Union Pacific Railroad
Courtyard
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
D1
D2
D3
D4
VW1
VW2
VW3
VW4
SV-43
SV-44
VEW-2
VMP-1
VEW-1
VEW-3
Explanation
Area of tetrachlorothene (PCE) and trichloroethene (TCE) impacted soil gas from depths of approximately 15 to 80 feet below ground surface
D4 Intermediate depth soil gas sample location (1995)
VW4 Nested vapor well location (2004, 2010)
SV-44 Soil gas location approximately 15-foot depth (2010)
Property boundary
Railroad tracks
Fence line
Concrete pad
16 Area of concern and designation
Approximate Scale in Feet
0 50 100
0 15 30
Approximate Scale in Meters
Basemap modified from Figure 2.31, Site Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.
Note:
All locations are approximate.
AREA OF PCE AND TCE IMPACTED SOIL GAS FROM DEPTH OF 15 TO 80 FEET
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California
By: pah
Date: 12/20/10
Project No: 13024.006
AMEC Geomatrix
Figure 7
Y:\13024.006.0\dgn\RiReport Figures.dgn

APPENDIX A

Historic Soil Gas Sample Result Summary Tables and Figures

TABLE 5

SOIL GAS SAMPLE RESULTS FOR TEMPORARY SOIL GAS PROBES[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2,4-Trimethylbenzene	Carbon Tetrachloride	Chloroform	Chloromethane	Styrene	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
SV-1	5	3/3/2010	**0.88**	**0.13**	<0.1[2]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-2-5'	5	3/3/2010	**5.6**	**1.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	**0.27**	<0.1	<0.05	<100	<0.05	**0.18**	**7.4**	**0.51**	**0.13**	<1
SV-3-5'	5	3/3/2010	**260**	**76**	<1	<1	<1	<1	<1	**11**	**0.87J[3]**	<1	<0.5	**1.1**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-4	5	3/3/2010	**1.1**	**0.75**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	**200**	<0.05	**0.78**	**0.23**	**3.0**	**1.0**	<1
SV-5-5'-1V	5	3/3/2010	**11**	**6.4**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-5-5'-3V	5	3/3/2010	**22**	**17**	<1	<1	<1	<1	<1	**0.56J**	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-5-5'-7V	5	3/3/2010	**20**	**17**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-6-5'	5	3/3/2010	**97**	**43**	<0.1	**0.14**	<0.1	<0.1	**0.22**	**21**	**0.71**	<0.1	<0.05	**0.57**	**0.12J**	**0.083J**	**0.10**	<100	**0.069**	<0.1	**0.19**	**0.11J**	<0.1	<1
SV-7	5	3/3/2010	**33**	**14**	**0.099J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.057J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.058J**	<0.2	<0.1	<1
SV-8	5	3/3/2010	**130**	**720**	**13**	<0.1	<0.1	<0.1	**0.13**	**0.51**	**0.12**	<0.1	<0.05	**1.9**	<0.2	<0.1	<0.05	<100	**0.087**	<0.1	**0.088J**	<0.2	<0.1	<1
SV-9-5'	5	3/3/2010	**4.6**	**6.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-9-5'-D	5	3/3/2010	**4.3**	**6.4**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-10-5'	5	3/3/2010	**4.2**	**7.5**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-11-5'	5	3/3/2010	**9.0**	**8.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-12-5'	5	3/4/2010	**17**	**13**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-12-5'-D	5	3/4/2010	**17**	**13**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-13-5'	5	3/3/2010	**7.2**	**5.9**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	**0.53J**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-14-5'	5	3/3/2010	**6.4**	**3.0**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-15-5'	5	3/4/2010	**5.8**	**9.8**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-16-5'	5	3/3/2010	**2.5**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	**7.6**	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-17-5'	5	3/3/2010	**2.7**	**0.55J**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.5	<1	<1	<2	<1	<10
SV-18-5'	5	3/4/2010	**3.4**	**3.5**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-19-5'	5	3/4/2010	**4.2**	**4.7**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-20	5	3/4/2010	**6.2**	**1.8**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.069J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-21	5	3/4/2010	**2.8**	**2.7**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	**0.076J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.064J**	<0.2	<0.1	<1
SV-22	5	3/3/2010	**0.39**	**0.63**	**0.12**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-23	5	3/4/2010	**1.1**	**0.63**	**3.1**	<0.1	<0.1	<0.1	**0.091J**	<0.1	<0.1	<0.1	<0.05	**0.073J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.083J**	<0.2	<0.1	<1
SV-24	5	3/4/2010	**2.0**	**1.6**	**5.8**	<0.1	**0.063J**	<0.1	**0.25**	<0.1	<0.1	<0.1	<0.05	**0.095J**	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-25	5	3/4/2010	**13**	**0.74J**	**22**	<1	<1	<1	0.66J	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-26	5	3/4/2010	**0.39**	**0.064J**	**0.25**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-26-DUP	5	3/4/2010	**0.43**	<0.1	**0.24**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1

TABLE 5

SOIL GAS SAMPLE RESULTS FOR TEMPORARY SOIL GAS PROBES[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2,4-Trimethylbenzene	Carbon Tetrachloride	Chloroform	Chloromethane	Styrene	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
SV-27	5	3/4/2010	**31**	**0.08J**	**2.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-28	5	3/4/2010	**0.13**	<0.1	**0.052J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.98**	**0.15J**	**0.05J**	<1
SV-29	5	3/4/2010	**0.54**	<0.1	**0.29**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.072**	<0.1	**0.60**	**0.14J**	<0.1	<1
SV-30	5	3/4/2010	**3.2**	**0.15**	**0.86**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-31	5	3/4/2010	**0.73**	**0.55**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.12**	<0.2	<0.1	<1
SV-32	5	3/4/2010	**3.9**	**2.1**	**31**	<0.1	**0.78**	<0.1	**1.0**	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-33-5'	5	3/4/2010	**15**	**12**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-32 (SV34)[4]	5	3/4/2010	**82**	**5.9**	**0.70 J**	<1	<1	<1	<1	<1	<1	<1	<0.5	**24**	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-35	5	3/5/2010	**0.18**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.052**	<0.1	**0.18**	<0.2	<0.1	<1
SV-36	5	3/4/2010	**0.085J**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	<0.1	<0.2	<0.1	<1
SV-37	5	3/4/2010	**0.32**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.086J**	<0.2	<0.1	<1
SV-38-5'	5	3/4/2010	**2.1**	**1.9**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<100	<0.05	<1	<1	<2	<1	<10
SV-39	5	3/4/2010	**0.28**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.2	<0.1	<0.05	<100	<0.05	<0.1	**0.054J**	<0.2	<0.1	<1
SV-40	5	3/5/2010	**100**	**21**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**	**0.14**	**0.19**	<0.05	**0.23**	<0.2	<0.1	<0.05	**100**	**0.14**	**0.19**	**0.94**	**0.73**	**0.2**	<1
SV-41	5	3/5/2010	**24**	**0.61**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.11**	<0.05	<0.1	<0.2	<0.1	<0.05	<100	**0.079**	**0.26**	**0.66**	**1.1**	**0.32**	<1
SV-42	5	3/5/2010	**17**	**6.7**	**0.66 J**	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-43-15'	15	3/5/2010	**100**	**59**	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	**0.54 J**	<2	<1	<10
SV-44-15'	15	3/5/2010	**200**	**520**	**9.1**	<5	<5	<5	<5	**3.7 J**	<5	<5	<2.5	<5	<10	<5	<2.5	<5000	<2.5	<5	<5	<10	<5	<50
SV-45	5	3/5/2010	**75**	**88**	**1.2**	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-46	5	3/5/2010	**4.2**	**2.8**	**11**	<1	<1	<1	**0.63 J**	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
SV-46-DUP	5	3/5/2010	**4.2**	**2.4**	**9.9**	<1	<1	<1	**0.56 J**	<1	<1	<1	<0.5	<1	<2	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
CHHSLs Shallow Soil Gas		Residential	**0.18**	**0.528**	**991**	NA	NA	**0.0496**	NA	**15.9**	**31.9**	NA	**0.0251**	NA	NA	NA	**0.0133**	NA	**0.0362**	NA	**135**	**319**	**315**	NA
		Commercial	**0.603**	**1.77**	**2790**	NA	NA	**0.167**	NA	**44.4**	**88.7**	NA	**0.0846**	NA	NA	NA	**0.0448**	NA	**0.0122**	NA	**378**	**887**	**879**	NA

Abbreviations:

CHHSLs = California human health screening levels.

NA = Not available.

DUP = Duplicate sample.

Notes:

1. Analyzed for volatile organic compounds and total petroleum hydrocarbon quantified as gasoline using U.S. EPA Method 8260B.
2. Not detected above reporting limit shown
3. Estimated concentration.
4. The samples were mislabeled asAMEC-SV-32. Correct sample ID should be AMEC-SV-34.

TABLE 6

SOIL GAS SAMPLE RESULTS FOR PERMANENT NESTED VAPOR WELLS[1]

Crown City Plating Company

El Monte, California

Results reported in micrograms per liter (µg/L)

Sample ID	Sample Depth (feet)	Sample Date	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Chloroform	Vinyl Chloride	C4-C12 (gasoline range)	Benzene	Ethylbenzene	Toluene	m,p-Xylenes	o-Xylene	Isopropanol (IPA)
VW11-20' (VW-1)[2]	20	3/4/2010	**430**	**450**	**1.8**	**1.1**	**1.7**	<1[3]	**1.2**	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW11-40' (VW-1)	40	3/4/2010	**79**	**260**	<10	<10	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW11-60' (VW-1)	60	3/4/2010	**81**	**510**	<10	**12**	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW11-80' (VW-1)	80	3/4/2010	**48**	**270**	<10	**11**	<10	<10	<10	<5	<10000	<5	<10	<10	<20	<10	<100
VW-3-20'	20	3/3/2010	**13**	**39**	<1	<1	**2.3**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-1V [4]	20	3/3/2010	**0.99**	**6.3**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-3V [4]	20	3/3/2010	**2.3**	**14**	<1	<1	**1.1**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-20'-7V [4]	20	3/3/2010	**2.0**	**11**	<1	<1	**0.95**	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW-3-40'-1V	40	3/3/2010	**630**	**1,400**	**0.54J** [5]	**7.0**	**39**	**1.7**	**4.5**	<0.5	<100	<0.5	<1	<1	<2	<1	<10
VW-3-40'-3V	40	3/3/2010	**820**	**1,700**	<25	<25	**42**	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-40'-7V	40	3/3/2010	**970**	**1,800**	<25	<25	**49**	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-60'	60	3/3/2010	**430**	**3,000**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-80'	80	3/3/2010	**130**	**810**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW-3-80'-DUP	80	3/3/2010	**150**	**900**	<25	<25	<25	<25	<25	<13	<25000	<13	<25	<25	<50	<25	<250
VW4-20'	20	3/4/2010	**1.6**	**2.1**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-40'	40	3/4/2010	**2.2**	**7.0**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-60'	60	3/4/2010	**2.6**	**9.5**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
VW4-80'	80	3/4/2010	**1.4**	**1.3**	<1	<1	<1	<1	<1	<0.5	<1000	<0.5	<1	<1	<2	<1	<10
CHHSLs Soil Gas		Residential	**0.18**	**0.528**	**991**	NA	**15.9**	**31.9**	NA	**0.0133**	NA	**0.0362**	NA	**135**	**319**	**315**	NA
		Commercial	**0.603**	**1.77**	**2790**	NA	**44.4**	**88.7**	NA	**0.0448**	NA	**0.0122**	NA	**378**	**887**	**879**	NA

Abbreviations:

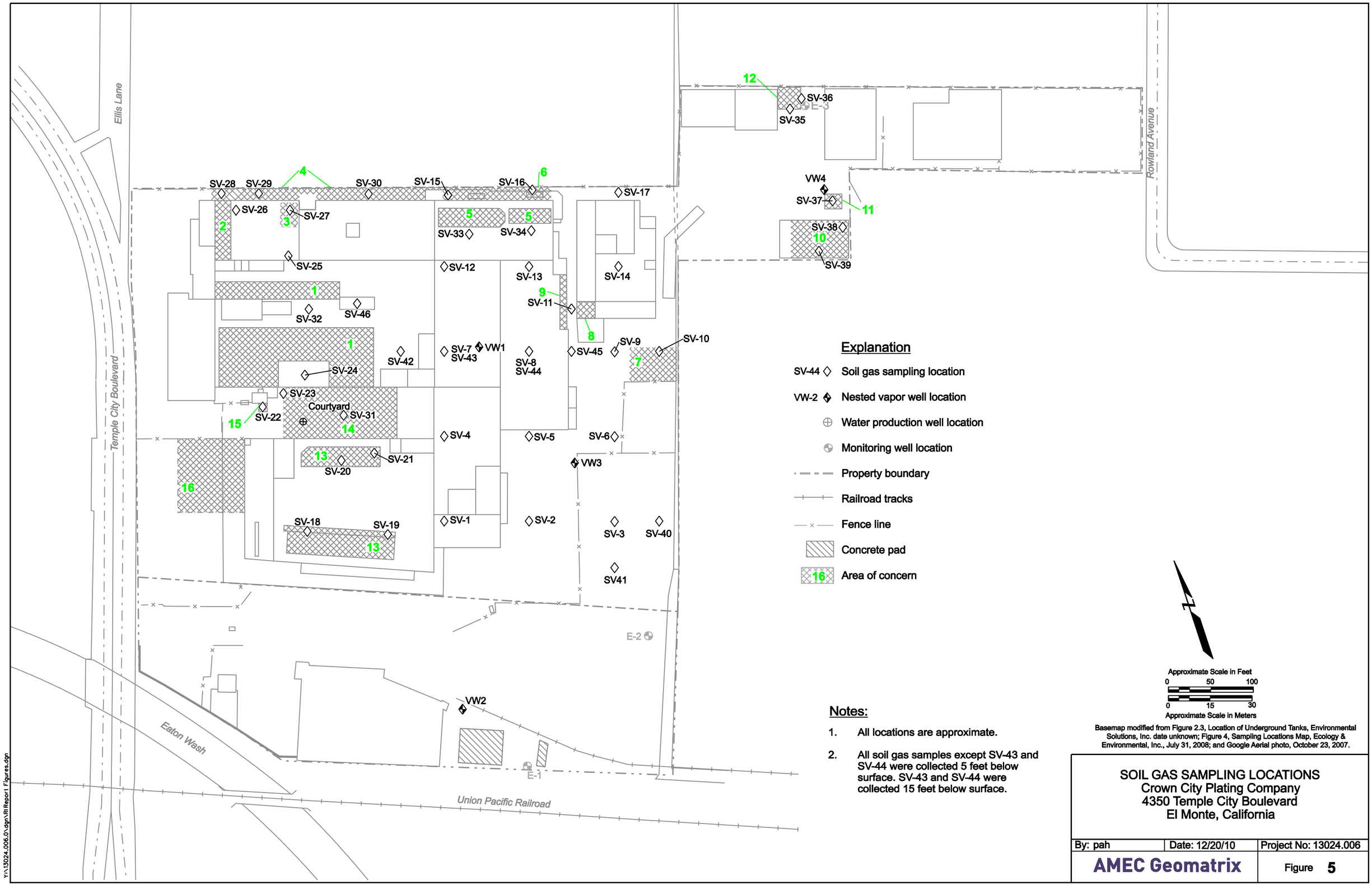
CHHSLs = California human health screening levels.

NA = Not available.

DUP = Duplicate sample.

Notes:

1. Analyzed for volatile organic compounds and total petroleum hydrocarbon quantified as gasoline using U.S. EPA Method 8260B.
2. The samples were mislabeled as VW11. Correct sample ID should be VW1.
3. Not detected above reporting limit shown
4. Initial purge-volume test results not used because of high vacuum in the vapor sample.
5. Estimated concentration.



Notes:

1. All locations are approximate.
2. All soil gas samples except SV-43 and SV-44 were collected 5 feet below surface. SV-43 and SV-44 were collected 15 feet below surface.

Basemap modified from Figure 2.3, Location of Underground Tanks, Environmental Solutions, Inc. date unknown; Figure 4, Sampling Locations Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

SOIL GAS SAMPLING LOCATIONS
Crown City Plating Company
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 12/20/10	Project No: 13024.006
AMEC Geomatrix		Figure 5

Y:\13024.006.0\dgn\RI Report Figures.dgn

TABLE 4

INTERMEDIATE DEPTH SOIL GAS SAMPLE RESULTS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]				
			PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE
D1-35	35	02/09/95	81	24	344	6	148
D2-40	40	02/09/95	30	5	33	ND [2]	36
D3-10	10	02/09/95	3	10	ND	ND	ND
D3-20	20	02/09/95	3	12	ND	ND	ND
D3-30	30	02/09/95	ND	2	ND	ND	ND
D3-40	40	02/09/95	ND	4	ND	ND	ND
D4-40	40	02/09/95	ND	ND	ND	ND	ND

Notes:

1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8010/8020 include: PCE = tetrachloroethene; TCE = trichloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; 1,1-DCA = 1,1-dichloroethane; and 1,1-DCE = 1,1-dichloroethene.
2. ND = not detected.

TABLE 7

2004 SITE-WIDE SOIL GAS SAMPLE RESULTS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1,1-TCA
SV-1	5	May-04	4.7	ND [2]	ND
SV-2	5	May-04	ND	ND	ND
SV-3	5	May-04	8	ND	ND
SV-4	5	May-04	14.4	ND	ND
SV-8	5	May-04	12.1	ND	ND
SV-11	5	May-04	5	ND	ND
SV-12	5	May-04	23.7	5.6	ND
SV-13	5	May-04	28.8	4.4	ND
SV-14	5	May-04	52	5	ND
SV-15	5	May-04	7.4	ND	ND
SV-17	5	May-04	990.0	415.8	ND
SV-18	5	May-04	5.7	2.2	ND
SV-19	5	May-04	86.8	115.8	ND
SV-20	5	May-04	4	ND	ND
SV-21	5	May-04	3.4	ND	ND
SV-22	5	May-04	1.9	ND	ND
SV-31	5	May-04	2.4	ND	ND
SV-40	5	May-04	2.9	ND	ND
SV-41	5	May-04	5.2	ND	ND
SV-47	5	May-04	8.7	8.2	ND
SV-48	5	May-04	5.1	ND	ND
SV-50	5	May-04	141.7	379.1	ND
SV-51	5	May-04	17.1	43.4	ND
SV-52	5	May-04	12	3.1	ND
SV-53	5	May-04	1.3	ND	ND
SV-55	5	May-04	31.4	12.6	ND
SV-56	5	May-04	487.3	117.3	ND
SV-57	5	May-04	4.5	ND	7.2
SV-60	5	May-04	6.7	ND	ND
SV-61	5	06/02/04	2.2	ND	10
SV-62	5	06/02/04	3.9	ND	4.9
SV-63	5	06/02/04	5.8	ND	9.8
SV-64	5	06/02/04	3.3	ND	3.2
SV-65	5	06/02/04	4.0	ND	2.0
SV-66	5	06/02/04	ND	ND	ND
SV-67	5	06/02/04	ND	ND	ND

TABLE 7

2004 SITE-WIDE SOIL GAS SAMPLE RESULTS

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds [1]		
			PCE	TCE	1,1,1-TCA
SV-68	5	06/02/04	ND	ND	ND
SV-69	5	06/02/04	ND	ND	ND
SV-70	5	06/02/04	ND	ND	ND
SV-71	5	06/02/04	ND	ND	ND
SV-72	5	06/02/04	ND	ND	ND
SV-73	5	06/02/04	ND	3.2	ND
SV-74	5	06/02/04	62.2	37.1	ND
SV-75	5	06/03/04	ND	ND	ND
SV-76	5	06/03/04	ND	ND	ND
SV-77	5	06/03/04	ND	ND	ND
SV-78	5	06/03/04	ND	ND	ND
SV-79	5	06/03/04	ND	ND	ND
SV-80	5	06/03/04	ND	ND	ND
SV-81	5	06/03/04	ND	ND	ND
SV-82	5	06/03/04	ND	3.2	ND
SV-83	5	06/03/04	65.8	130.3	ND
SV-84	5	06/03/04	11.3	11.4	ND
SV-85	5	06/03/04	36.4	153.4	ND
SV-86	5	06/03/04	1,059.5	1,507.0	ND
SV-87	5	06/03/04	580.8	218.9	ND
SV-88	5	06/03/04	1,241.2	2,629.5	ND
SV-89	5	06/03/04	114.4	103.5	ND
SV-90	5	06/03/04	750.0	659.5	ND
SV-91	5	06/03/04	81.7	249.2	ND

Notes:

1. Volatile organic compounds analyzed using U.S. Environmental Protection Agency Method 8260 equivalent include: PCE = tetrachloroethene; TCE = trichloroethene; and 1,1,1-TCA = 1,1,1-trichloroethane.
2. ND = not detected.

TABLE 9

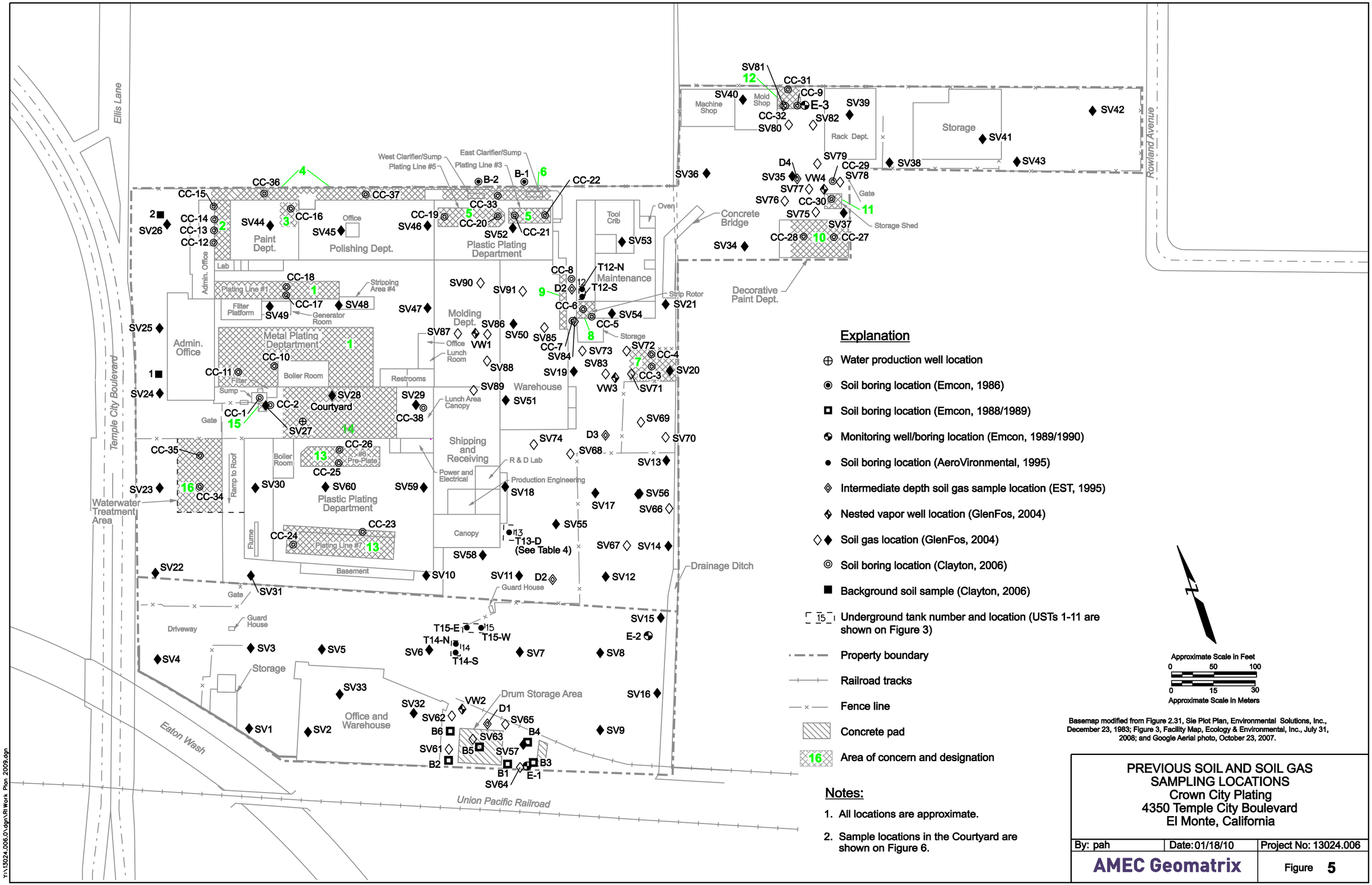
SOIL GAS SAMPLE RESULTS FOR NESTED WELLS

Crown City Plating Company
El Monte, California

Concentrations reported in micrograms per liter (µg/L)

Boring ID	Sample Depth (feet)	Sample Date	Volatile Organic Compounds	
			Tetrachloroethene	Trichloroethene
VW1	20	06/15/04	406.1	607.4
VW1	40	06/15/04	337.3	1,512.3
VW1	60	06/15/04	161.6	1,045.5
VW1	80	06/15/04	238.7	345.4
VW2	20	06/15/04	4.3	21.2
VW2	40	06/15/04	25.2	172.3
VW2	60	06/15/04	62.4	324.3
VW2	80	06/15/04	17.4	167.3
VW3	20	06/15/04	697.3	764.3
VW3	40	06/15/04	503.3	2,114.7
VW3	60	06/15/04	170.9	1,441.5
VW3	80	06/15/04	196.8	1,290.4
VW4	20	06/15/04	ND	ND
VW4	40	06/15/04	1.3	2.8
VW4	60	06/15/04	1.9	4.6
VW4	80	06/15/04	2.1	22.7

Note:
ND = not detected.



Basemap modified from Figure 2.31, Sie Plot Plan, Environmental Solutions, Inc., December 23, 1983; Figure 3, Facility Map, Ecology & Environmental, Inc., July 31, 2008; and Google Aerial photo, October 23, 2007.

PREVIOUS SOIL AND SOIL GAS SAMPLING LOCATIONS
Crown City Plating
4350 Temple City Boulevard
El Monte, California

By: pah	Date: 01/18/10	Project No: 13024.006
AMEC Geomatrix		Figure 5

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