

Arizona Department of Transportation Office of Environmental Services 206 South 17th Avenue, MD 102A Phoenix, Arizona 85007

Stormwater Management Plan 2012 Annual Report MS4 Permit No. AZS000018-2008







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ACRONYMNS and DEFINITIONS

A&Wedw – Aquatic and Wildlife (effluent-dependent water)

A&Wc – Aquatic and Wildlife (cold water)

A&Ww – Aquatic and Wildlife (warm water)

AASHTO - American Association of State Highway and Transportation Officials

ADEQ - Arizona Department of Environmental Quality

ADOT – Arizona Department of Transportation

AgL – Agricultural Livestock Watering

AHLI - Adopt-a-Highway Litter Initiative

A.R.S. – Arizona Revised Statute

ASD – Administrative Services Division

AZPDES – **Arizona Pollutant Discharge Elimination System** – The State program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 318, 402, and 405 of CWA.

BLM - Bureau of Land Management

BMP – **Best Management Practice** - Permit condition used in place of or in conjunction with effluent limitations to prevent or control the discharge of pollutants. BMPs may include, but are not limited to, treatment requirements, operating procedures, or practices to control plant/facility site runoff, spillage, leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may also include schedule of activities, prohibition of practices, maintenance procedure, or other management practice.

BOD – Biological Oxygen Demand

COD – Chemical Oxygen Demand

CWA – **Clean Water Act** - The Clean Water Act is an act passed by the U.S. Congress to control water pollution. It was formerly referred to as the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972 (Public Law 92-500), 33 U.S.C. 1251 et. seq., as amended by: Public Law 96-483; Public Law 97-117; Public Laws 95-217, 97-117, 97-440, and 100-04.

DEC – District Environmental Coordinator

DMR – Discharge Monitoring Report - The form used (including any subsequent additions, revisions, or modifications) to report self-monitoring results by AZPDES permittees. DMRs must be used by approved states as well as by EPA.

EPA – U.S. Environmental Protection Agency

EPCP - Erosion Pollution Control Plan

ERP – Enforcement Response Plan

FAA – Federal Aviation Administration

FBC – Full Body Contact

FC - Fish Consumption

FIS – Features Inventory System

FPPP – Facility Pollution Prevention Plan

GCNPA – Grand Canyon National Park Airport

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IDDE – Illicit Discharge Detection and Elimination

MS4 – Municipal Separate Storm Sewer System - A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) owned by a state, city, town or other public body, that is designed or used for collecting or conveying stormwater, which is not a combined sewer, and which is not part of a publicly owned treatment works. Commonly referred to as an "MS4" [40 CFR 122.26(b)(8)].

NASPA - Northern Arizona Stormwater Pollution Alliance

NEPA –National Environmental Policy Act

NFPA – National Fire Protection Association

NOV – Notice of Violation

NTU – Nephelometric Turbidity Units

OES – Office of Environmental Services

OSHA – Occupational Safety and Health Administration

PAG – Pima Association of Governments

PBC - Partial Body Contact

Permit – Arizona Pollutant Discharge Elimination System Permit No. AZS000018-2008

Permittee – means the Arizona Department of Transportation.

QAM – Quality Assurance Manual

SCOE - Standing Committee on the Environment

SMP – Slope Management Program

SR - State Route

SSC – Suspended Sediment Characteristics

SSWMP – Statewide Stormwater Management Plan – A comprehensive plan for implementation of AZPDES permit requirements.

STORM – STormwater Outreach for Regional Municipalities

Stormwater – Stormwater runoff, snowmelt runoff, and surface runoff and drainage [40 CFR 122.26(b)(13)].

SWAT – Stormwater Advisory Team

SWPPP – Stormwater Pollution Prevention Plan

SWQS - Surface Water Quality Standard

TMDL - Total Maximum Daily Load

TSS – Total Suspended Solids

TDS – Total Dissolved Solids

TKN – Total Kjeldahl Nitrogen

Waters of the United States – All waters that are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters subject to the ebb and flow of the tide. Waters of the United States include but are not limited to all interstate waters and intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds. [See 40 CFR 122.2 for the complete definition.]

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EXECUTIVE SUMMARY

The Arizona Department of Transportation (ADOT) is submitting this 2012 Statewide Stormwater Management Program (SSWMP) Annual Report describing activities and programs implemented from July 1, 2011 through June 30, 2012. During this time period ADOT operated under the Arizona Pollutant Discharge Elimination System (AZPDES) Permit No. AZS000018-2008 (Permit). This is the fourth Annual Report submitted under the Permit, which expires September 18, 2013. The Permit authorizes ADOT to discharge stormwater, and other constituents as specified, Statewide (except for Indian Country) to Waters of the United States in Arizona in accordance with its terms and conditions. Specifically, the Permit covers:

- Activities associated with the Municipal Separate Storm Sewer System (MS4) operated by ADOT
- Activities associated with construction from the commencement of construction until final stabilization initiated and controlled by ADOT
- Activities associated with industrial and maintenance facilities owned and operated by ADOT

The Annual Report is divided into the following twelve categories: (1) General Information, (2) Annual Report Certification, (3) Narrative Summary of the SSWMP activities, (4) Numeric Summary of SSWMP Activities, (5) Evaluation of the SSWMP, (6) SSWMP Modifications, (7) MS4 Monitoring Location Information, (8) Storm Event Records, (9) Summary of Monitoring Data, (10) Assessment of Monitoring Data, (11) Estimate of Pollutant Loading, and (12) Annual Expenditures. This Annual Report is used by ADOT to assess the performance of its stormwater management program and report compliance activities to the Arizona Department of Environmental Quality (ADEQ).

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1 GENERAL INFORMATION

Permittee Name: Arizona Department of Transportation

Permit Number: AZS000018-2008

Reporting Period: July 1, 2011 - June 30, 2012

Stormwater Management Program Contact:

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Name of Certifying Official:

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2 ANNUAL REPORT CERTIFICATION

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Todd G. Williams Todd G. Williams, M. Sc. Director, OES

Date

12/30/12

3 NARRATIVE SUMMARY OF SSWMP ACTIVITIES

Permit Section 9.1.2(c): Provide a summary of the status of the SSWMP each year, including a brief description of the implementation and progress of every individual best management practice (BMP). Also, provide an explanation of any significant developments or changes to the number or type of activities, the frequency or schedule of activities, or the priorities or procedures for implementation of specific management practices.

The SSWMP was reviewed and no updates were made. Refer to Appendix A for a summary of implementation, progress, significant developments, and program priorities.

3.1 ADOT Technical Documents

Permit Requirement (Appendix B, Part 3): Include a short statement for each of the following documents indicating if a review was completed. Describe any major updates to each document.

ADOT reviews and updates its technical stormwater documents as needed. A status summary of each technical document is provided:

- Erosion and Pollution Control Manual Update of this manual is on-going and in accordance with Permit Section 3.2.2.1(c). Updates included revision of BMP detail drawings, SWPPP index sheets, and associated training module.
- *Maintenance and Facilities Best Management Practices Manual* There were no updates to this manual during the report year.
- Stormwater Monitoring Guidance Manual for MS4 Activities There were no updates to this manual during the report year.
- Stormwater Monitoring Guidance Manual for Construction Activities There were no updates to this manual during the report year.
- Stormwater Monitoring Guidance Manual for Industrial Activities There were no updates to this manual during the report year.
- *Post-Construction Stormwater Control BMP Manual* There were no updates to this manual during the report year.
- Quality Assurance Manual (QAM) There were no updates to this manual during the report year.
- Enforcement Response Plan (ERP) This manual was updated to reflect additional steps with respect to illicit discharge reporting and corrective action when coordinating with other MS4s.

3.2 Outfall Inspection and Tracking

Permit Section 3.2.3.2(e): ADOT shall document that a system to track and record the findings of outfall inspections, including the conditions of outfalls, potential sources of pollutants, and maintenance needs has been implemented and is being maintained.

ADOT continues to establish a system to track and record the findings of outfall inspections. Of the 71 outfalls statewide, 51 were inspected during the report year. Seven of the 51 observed dry weather flows, one of which was permitted with ADEQ. Refer to Appendix B for Dry Weather Field Screening Reports.

The lack of inspection on all outfalls is a result of staff changes, inadequate data information systems, and training. OES is implementing multiple new programs in 2012-2013 to ensure all districts are maintaining data in the same manner and receive appropriate training.

Additional work to identify new outfalls commenced in January 2012. The process to establish these new outfalls relies on a central database that stores information on all highway features. The Features Inventory System has been mapping all features statewide for several years and anticipates completion in February 2014.

Concurrent with mapping of highway features, including drainage pipes and ditches that are currently only known on paper, ADOT obtained the services of a consultant to apply the Permit outfall definition to these features as soon as the data was available.

During the process of applying the Permit outfall definition to the features it became evident that the task was insurmountable. ADOT was averaging 1,000 outfalls per district. The task was suspended pending further process review.

It is anticipated that mapping of the highway features and assessing each location as a potential outfall will continue concurrently over the next few years, or as deemed by the anticipated administrative order by the EPA.

3.3 Public Access to Stormwater Documents

Permit Section 3.2.2.3(a): ADOT shall summarize the status of public access to stormwater documents.

ADOT has maintained an online Stormwater Library that can be accessed via the internet at the following location:

http://www.azdot.gov/Inside_ADOT/OES/Water_Quality/Stormwater/Index.asp.

The internet site received 365 total page reviews and 243 unique page reviews. Anyone without internet access can obtain these documents by contacting OES at (602) 712-8353. Documents maintained in the Stormwater Library include:

- Permit and Related Documents
 - o ADOT Permit
 - o Statewide Stormwater Management Plan
 - o Annual Reports (2005 2011)
 - o Permit Application
- Manuals
 - Quality Assurance Manual
 - o Erosion and Pollution Control Manual/BMP Detail Drawings
 - o Post-Construction Best Management Practices Manual
 - o Maintenance and Facilities Best Management Practices Manual
 - o Stormwater Monitoring Guidance Manual for Construction Activities
 - o Stormwater Monitoring Guidance Manual for MS4 Activities
 - o Stormwater Monitoring Guidance Manual for Industrial Activities
 - o Stormwater Enforcement Response Plan
- Maps
 - o Outstanding, Impaired, and Not Attaining Waters Maps by County
 - o Phase I & Phase II Stormwater System Maps

- o Projects in the Five Year Program Located Near Unique and Impaired Waters
- Other Resources
 - o Construction Stormwater Pollution Prevention Plan (SWPPP) Template
 - o Encroachment-related documents
 - o ADOT-Licensed Material Sources Documents
 - Contact list
 - Useful links

3.4 Illicit Discharges

Permit Section 3.2.3.4(d): ADOT shall summarize the status of implementation procedures to track actions taken on illicit discharges and illegal dumping. Develop and implement a procedure to track the action taken on identified illicit discharges and illegal dumping.

ADOT currently tracks illicit discharges and follow-up actions through use of a spreadsheet, with supporting documentation on the ADOT server. Each annual report year has a separate folder. District staff makes the initial contact with the alleged connector. If the connection is not proven to be permitted, and is not removed in 30 days, the issue is referred to the Water Quality Group for follow-up. All formal correspondence is tracked by the Water Quality Group.

3.4.1 Illicit Discharges Eliminated

Permit Section 3.2.3.4(b)(ii): ADOT shall report the number of illicit discharges eliminated each year in the Annual Report

ADOT has identified 9 and eliminated 8 illicit discharges for the noted District. Not all incidences required ADOT to send a letter to the land owner. In many cases, the illicit connection was corrected immediately after the district made the owner aware of the inappropriate connection. For the three instances where ADOT corresponded formally, the letter has been included in Appendix C.

- Flagstaff 1 (determined to be permitted by ADEQ)
- Globe -2
- Kingman District 1
- Phoenix District 3
- Tucson District 1
- Safford 1

3.4.2 Illicit Discharges Reported to Other Jurisdictions

Permit Section 3.2.3.4(c)(iii): ADOT shall present the number of illicit discharges reported to other jurisdictions for follow-up in the Annual Report

There have been no illicit discharges identified during the report year that required coordination with other jurisdictions.

3.5 Erosion Abatement Projects

Permit Section 3.2.6.2(d): ADOT shall describe the tracking system used to identify, track and prioritize erosion abatement projects. Summarize erosion abatement projects conducted during each year.

ADOT has established a procedure to identify, track, and prioritize erosion abatement projects. This consists of annual inquiries to District staff to program projects for the next fiscal year. Potential project information will be due each April. Tracking and prioritizing will be managed

by the Water Quality Group, which has recently been allotted a portion of federal subprogram funding.

Requests to Districts were solicited in May 2012 and by June 2012 ADOT had identified 22 locations that could utilize professional and financial assistance. The Water Quality Group initiated a stormwater protection program that is federally reimbursable and fiscal year 2012 monies were allocated to design solutions for these 22 locations. Site visits will commence in fiscal year 2013 and future program allocations will be used to construct the designs, or address new priorities in response to storm events.

3.6 Spills and Other Releases

Permit Section 4.1.5.2(d): ADOT shall document that a system to track and record spills and other releases by ADOT staff and at ADOT maintenance facilities has been established.

ADOT has developed and implemented a system to track and record spills. ADOT has prepared Facility Pollution Prevention Plans for all maintenance yards. The FPPP contains a spill report form that is submitted to the Water Quality Group and District Environmental Coordinator for tracking. An example Spill Reporting Form for a recent incident may be found in Appendix D.

3.7 Maintenance Facility SWPPPs

Permit Section 4.2.1.1: ADOT shall document individually that the SWPPP required for each maintenance facility has been updated.

The Permit required 18 SWPPs at designated maintenance yards. In 2011, all 18 original sites received updates in the form of a Facility Pollution Prevention Plan (FPPP), plus an additional 73 were prepared for facilities in the state. FPPs provide a comprehensive plan for the maintenance yards by addressing other forms of potential environmental pollution. To date, ADOT has produced and implemented 91 FPPPs.

3.8 Construction Site Issues

Permit Section 5.3.4: A list and description of all violations ADOT has determined at construction sites and their resolution, including any enforcement actions taken against ADOT contractors.

3.8.1 Construction Site Tracking System

The ADOT OES Compliance Group has developed a system to identify, track, and resolve or follow-up on violations at construction sites. Additional efforts by the OES Compliance staff include independent audits of construction sites, population of communication matrices such as environmental compliance information tracking, and performance of risk assessment.

3.8.2 Construction Violations

ADOT construction inspections resulted in a Notice of Violation issued May 21, 2012 to Haydon Construction and a Notice of Opportunity to Correct issued February 2, 2012 to Vastco. All other inspections did not result in any enforcement action.

3.9 Industrial Facilities

Permit Section 6.6.2 & 6.7.2: Provide a brief statement documenting that the SWPPPs for Grand Canyon National Park Airport and Durango Sign Factory were updated and on-site within 90 days of the effective date of the Permit.

ADOT industrial facilities include the Grand Canyon National Park Airport, Durango Sign Factory, the former Print Shop (closed 2010), and Material Sources. These facilities are discussed below.

3.9.1 SWPPP Update

SWPPPs for the Grand Canyon National Park Airport (GCNPA) and the Durango Sign Factory are being converted to FPPPs in Permit year 2012-2013. The Grand Canyon National Park Airport underwent a modification in 2012 and the Durango Sign Factory is budgeted in 2013.

GCNPA is owned and operated by ADOT under the Administrative Services Division (ASD). In addition to ADOT operated facilities, there are four commercial operating tenants located on the property. Environmental regulations regarding airport operations at this facility are enforced by Environmental Protection Agency (EPA), ADEQ, Federal Aviation Administration (FAA), and Occupational Safety and Health Administration (OSHA). A comprehensive environmental inspection has been conducted at GCNPA each October since 2010. The inspections are conducted to determine compliance with stormwater, air quality, hazardous materials, spill prevention, health and safety, and wastewater.

This was the second annual environmental inspection at GCNPA, and many improvements have been implemented. Hangers, bulk fueling, fuel storage, equipment storage, drainage, wash rack and de-icing pad, as well as inspection and maintenance records were inspected. Housekeeping practices have been recommended and implemented to reduce or eliminate potential site runoff of pollutants. Many recommendations were suggested to be consistent with OSHA, EPA, and FAA guidelines. Secondary containment has been added as necessary. Labeling was recommended consistent with OSHA and the National Fire Protection Association (NFPA). A metric will be initiated in the next annual report when more baseline information is available.

3.9.2 No Exposure Certification – Requirement Removed

3.10 Material Sources

Permit Section 6.8.3: Provide a map of material sources and provide a status summary of each site.

ADOT's Materials Group maintains an inventory of regulated material sources and stockpile sites. The status of these sites is summarized in this section and a map illustrating the location of all sites is available in Appendix E.

3.10.1 Active Sites – Group A

Permit Section 6.8.3: Provide a status summary of each site.

ADOT has 18 sites within Group A, which is defined as active sites where work or other activities related to the extraction, processing, removal or recovery of minerals is being conducted. Group A is further defined by ADOT into the following two categories:

- Group A1 sources used frequently for maintenance activities
- Group A2 sources used infrequently for major construction projects

There are 11 sites within Group A1 as identified in Table-1. These sites are used frequently by ADOT Maintenance and may be occasionally used by contractors on construction projects. These sites are inspected on a quarterly basis.

Table 1 - Group A1 Sites

Material Sources Used Frequently and Inspected Quarterly					
Site No.	Source Name	District	County		
1563	Pole Knoll	Globe	Apache		
3043	Squaw Peak	Globe	Gila		
3512	Burnt Corral	Globe	Maricopa		
5154	JMP Ranches Inc.	Globe	Apache		
8109	BVD	Holbrook	Coconino		
7810	Crabtree	Safford	Greenlee		
6662	Val Vista	Tucson	Pinal		
1662	Tanner	Yuma	Yuma		
2979	2979 Vicksburg		La Paz		
3547	Gila Bend North	Yuma	Maricopa		
5474	Castle Dome	Yuma	Yuma		

There are 7 sites within Group A2 as identified in Table-2. These sites are used infrequently by contractors (every three to five years) for major construction projects and are inspected annually. When Group A2 sites are utilized for a project, the contractor includes the material source in the project SWPPP or develops a site-specific SWPPP. The contractor submits a Notice of Intent under the Construction General Permit, implements and maintains BMPs, conducts routine inspections, and provides temporary stabilization before filing a Notice of Termination.

Table 2 - Group A2 Sites

Material Sources Used Frequently and Inspected Quarterly					
Site No.	Site No. Source Name District Cou				
8135	Warm Springs	Globe	Apache		
8706	Yucca	Kingman	Mohave		
8569	Dugas	Prescott	Yavapai		
6022	Bowie	Safford	Cochise		
5058	5058 Picacho		Pinal		
5643	5643 Gila Bend South		Maricopa		
8268	8268 Tiger Wash West		Maricopa		

3.10.2 Inactive Sites – Group B

Group B includes sites or portions of sites where mining occurred in the past but is currently not an active facility.

ADOT has 5 sites in Group B, which is defined as inactive material sites being evaluated for mining license renewal, reclamation or disposal. ADOT may not hold a current mining license to some Group B sites and, therefore, ground disturbing activities at those facilities is not authorized. Table 3 provides the goal to use or reclaim Group B sites during the Permit term.

Table 3 - Group B Sites

Site	Source	District	County			Schedule	
No.	Name	DISTRICT	County	Year 2	Year 3	Year 4	Year 5
3044	Board Tree Saddle	Globe	Gila		1	1	Permit Renewal
7225	Connor Canyon	Globe	Gila				Permit Renewal
8763	Fish Creek	Globe	Maricopa			1	Permit Renewal
6451	Slick Rock Wash	Safford	Graham		-	-	Further Evaluation
478	Mohawk	Yuma	Yuma				Further Evaluation

3.10.3 Reclaimed Sites - Group C

Group C includes sites where activities are being conducted to return the land to its pre-mining state.

ADOT currently has 2 sites in Group C as identified in Table 4. Group C is defined as sites where activities are being conducted to return the land to its pre-mining condition.

Table 4 – Group C Sites

Site No.	Source Name	District	County	Status
3562	Beaver Creek	Flagstaff	Yavapai	Pending access to the site from the Forest Service due to migratory bird issues
8629	Sevenmile Wash	Globe	Gila	Pending release documentation from the Forest Service

3.10.4 Non-Mining Sites – Group I

Group I includes non-mining sites (regulated stockpile sites).

ADOT has 12 sites in Group I, which is defined as sites used to store aggregate, dirt, and other supplies. ADOT Maintenance has access to import or export material 365 days a year; therefore, these sites are inspected quarterly.

Table 5 – Group I Sites

Non-Mining Sites Inspected Quarterly								
Site No.	Site No. Source Name District County							
5781	Blue Grade	Flagstaff	Yavapai					
7625	Fort Tuthill	Flagstaff	Coconino					
1061	Second Knoll	Globe	Navajo					
3591	Carol Spring Mountain	Globe	Gila					
7525	Defiance	Globe	Pinal					
1245	Sunset Pass	Holbrook	Coconino					
8400	Sunflower	Phoenix	Maricopa					

Non-Mining Sites Inspected Quarterly					
Site No.	Source Name	District	County		
999	Tubac	Tucson	Santa Cruz		
7885	Sahuarita	Tucson	Pima		
5002	Fortuna/Blaisedell	Yuma	Yuma		
6183	Dateland	Yuma	Yuma		
7287	Centennial	Yuma	La Paz		

3.10.5 Inspection of Material Sources

Permit Section 6.8.4.2(d): ADOT shall create a summary for each Annual Report of all inspections conducted. The summary shall include the inspection findings, deficiencies, and corrections made to each site.

Group A, B, C and I sites were inspected as indicated in the appropriate section (either quarterly, annually, or every 14 days). Reports are available from ADOT Materials Group or the appropriate ADOT District. In accordance with the Permit Section 6.8.4.2.d., the inspection findings, deficiencies, and corrective actions for non-compliant sites are provided in Table 6.

Table 6 - Summary of Inspection Findings, Deficiencies, and Corrective Actions

Site No. &		bettom i munigs, benefener	
Name	Findings	Deficiencies	Corrective Action
MS 2979 –	Berm along north	Berm along north needs	Reconstruct berm near north
Vicksburg	breeched.	repair.	boundary.
MS 3562 –	Sediment	Berm along west side	ADOT is ready to start
Beaver Creek	discharge at haul	needs maintenance;	reclamation. Migratory birds
	road and southern	implement check dams	preclude reclamation until
	boundary.	along haul road.	further authorization from the
			Forest Service.
MS 3591 –	Salt plume around	Sump has inadequate	Multiple corrections to the site
Carol Spring	sump; Berm	storage volume; Need to	needed. Due to paving the haul
Mountain	along south	install flow-velocity	road, runoff has increased.
	breeched.	dissipaters.	Reconstruct berm and redesign
			retention area to adequately
			handle the collected water.
			Requested facility modification
			for salt shed apron; need to
			obtain capital improvement
			funds to reconstruct apron or
			find alternate solution (add a
			tank to store pumped water).

Site No. & Name	Findings	Deficiencies	Corrective Action
MS 5002 –	Aggregate and	While some of the area is	ADOT is determining whether
Fortuna Wash	reclaimed asphalt pavement mobilizing to floodplain; Illegal dumping by others, good housekeeping.	vegetated and provides a buffer to the wash, the north bank is sloughing. Lack of signage to preclude trespassing	continued use of this ADOT- owned property is necessary. A prior excavated area (pit) is located between the upland area where material is stored and the ordinary high water mark of Fortuna Wash. Remedial action will take place in Permit Year 5. Install no dumping or no trespassing signage.
MS 5058 – Picacho	Non-compliance issues identified during the annual inspection. Minor soil contamination by contractors at site.	Headcutting and rilling along boundaries of the site. Good housekeeping not being implemented.	ADOT contractor has corrected the contamination issue. ADOT and contractor are still addressing slope erosions.
MS 6451 – Slick Rock Wash	Inadequate reclamation.	Stockpiles of material remain onsite; two areas along the wash bank contain asphalt waste.	There is no evidence of asphalt transport into the wash. The site was utilized nearly 2 decades ago. Vegetated buffers provide interim stabilization until ADOT can fund site remediation.
MS 6662 – Val Vista	Run-on and disturbance by off road vehicles eroding southern berm. Run on occurring along northern and eastern boundaries due to headcutting.	Infrequent maintenance of slopes, implementation of stormwater velocity dissipation.	ADOT is working with on-site contractor to address the slope issues. Additional signage could curb illegal dumping and damaging of southern berm.
MS 7287 – Centennial Wash	Run-on causing headcutting.	Infrequent maintenance of slopes.	Erosion should be periodically backfilled. ADOT currently does not have a dedicated access to the site. ADOT is working with Federal Highway Administration (FHWA) to obtain ingress/egress to the site. Repairs will occur thereafter.

Site No. &			
Name	Findings	Deficiencies	Corrective Action
MS 7525 –	Sediment and	Berm not maintained; no	Need to reestablish the west-
Defiance	aggregate	velocity control devices.	side berm and replace wattles at
	discharge along		discharge points to an unnamed
	western		drainage that intersects the haul
	boundary.		road.
MS 7885 –	Run-on is eroding	Infrequent maintenance	ADOT needs to backfill slopes
Sahuarita	slopes along the	of slopes.	to preclude further erosion.
	north and west		
1.50 0100	boundaries.		
MS 8109 –	Sediment builds	Check dams along	Check dams need to be cleaned
BVD	up in check dams.	eastern and western sides	out and maintained.
		of the property need	
MS 8268 –	Small soil	maintenance.	C1
	contamination.	Good housekeeping not	Clean up and remove the contamination.
Tiger Wash West	Contamination.	implemented.	Contamination.
MS 8400	Sediment	No BMPs in place.	Fill the erosion cuts at the site
Sunflower	discharge off the	Two Birth's in place.	and haul road. Install wattles to
2011110 11 01	site. Major		dissipate water flow on sharp
	channeling at the		slopes. Use rip rap channels and
	haul road area.		pipe culverts to direct the flow
			off the site and haul road.
MS 8763 –	Desilting basin	Inadequate size and	Redesign the desilting basin,
Fish Creek	inadequate; haul	location of desilting	use rip rap channelization and
	road eroded.	basin; overflowing and	check dams to direct flow away
		eroding haul road.	from haul road.

3.10.6 Sites Removed from Inspection List

Sites removed from inspection requirements within the reporting year include:

- MS 1546 because it occurs on land under the authority of the White Mountain Apache Tribe and is not subject to the Permit.
- MS 1318 because it occurs on land under the authority of the Tohono O'odham Nation and is not subject to the Permit.
- MS 1546 because it occurs on land under the authority of the White Mountain Apache Tribe and is not subject to the Permit.

3.10.7 Site Plans and Training

ADOT has implemented a program to develop Erosion and Pollution Control Plans (EPCPs) for sites on the inspection list and provide appropriate training to ADOT personnel regarding inspection requirements. Approximately 2 EPCPs were developed during the report year and 3 ADOT personnel received training for inspecting these sites. The training was conducted in the field and included two District Environmental Coordinators and one Material Source staff.

4 NUMERIC SUMMARY OF SSWMP ACTIVITIES

Permit Appendix B, Part 4: Provide a numeric summary of BMPs and activities performed each year.

A numeric summary of BMPs and activities performed by ADOT during the reporting year is provided in Appendix F. Appendix F varies from prior reports due to online training modules being implemented during this report year. Modules combined some elements of training. Refer to Narrative Summary in Appendix A for additional information on classifications.

5 EVALUATION OF THE SSWMP

Permit Section 3.1.5: Provide an evaluation of the progress and success of the SSWMP each year, including an assessment of the effectiveness of stormwater management practices in reducing the discharge of pollutants to and from the municipal storm sewer system.

An evaluation of ADOT's SSWMP has been conducted utilizing EPA's January 2008 guidance entitled *Evaluating the Effectiveness of Municipal Stormwater Programs*. This guidance provides a set of methods to assess the success of a stormwater management program. The three EPA recommended approaches to evaluate program effectiveness were used:

- Assessing program operations
- Evaluating social indicators
- Monitoring water quality

5.1 Assessment of Program Operations

The purpose of assessing ADOT's program operation and activities is to verify basic compliance with the Permit and document that tangible efforts have been made to reduce impacts to stormwater. The following progress has been made to its program within the past reporting year:

<u>Update</u> of the SSWMP

There were no updates during this reporting period.

Guidance Manuals/Technical Documents

ADOT updated the guidance manuals and technical documents during the reporting year:

- Erosion and Pollution Control Manual (on-going), associated training module
- SWPPP Index Sheets and Stormwater Quality Protection on BMPs
- Stormwater Enforcement Response

BMP Tracking

ADOT tracked the following BMPs:

- 4.643 online classes were attended
- 192 contractors and ADOT staff attended the Erosion Control Coordinator certification or refresher class
- 9 illicit discharges were identified and 8 were removed
- 91 FPPPs for ADOT facilities were prepared, and 54 implemented

New or Revised Permits or Policies

ADOT has developed new policies that are in the stakeholder review process. These include:

Environmental Communication

- Environmental Risk and Liability
- Facility Pollution Prevention Plans (FPPPs)
- Water Quality

5.2 Assessment of Social Indicators

The assessment of social indicators is an important element that tracks knowledge and awareness. It is also an important tool in documenting behavioral changes. The following social indicators were tracked; 1,618 volunteer groups participated in the Adopt-a-Highway Litter Initiative and 4,108 miles of highway were cleaned by Adopt-a-Highway volunteers.

ADOT is also actively involved in four stormwater collaborative efforts as described in prior annual reports; STormwater Outreach for Regional Municipalities (www.azstorm.org), Northern Arizona Stormwater Pollution Alliance, Pima Association of Governments - Stormwater Management Working Group, and American Association of State Highway and Transportation Officials. Three ADOT staff attended the Stormwater Practitioner's Meeting held in June 2012. A webinar of the event highlights can be viewed at: http://environment.transportation.org/center/products_programs/webinars/stormwater.aspx

5.3 Monitoring Water Quality

ADOT installed dedicated equipment for its MS4 locations and conducted stormwater quality monitoring during the reporting year to include:

- 5 MS4 sites monitored¹ (Flagstaff, Sedona, Phoenix, Tucson, Nogales)
- 3 maintenance yards monitored near impaired waterways (Nogales, Superior, Superior Fuel)
- 2 construction sites monitored at outstanding/impaired waterways (Marsh Station and Doubtful Canyon)
- 1 industrial facility monitored (Durango Sign Factory)

ADOT has completed the installation of automated sampling equipment for all sites, except for construction projects. These monitoring sites represent ADOT activities and anticipated sources of pollutants from ADOT operations statewide. Results obtained will help to characterize roadway stormwater in Arizona that would assist ADOT in evaluating BMPs to manage the appropriate and/or priority pollutants in the desert southwest.

In general, monitoring equipment did not function at the five MS4 locations consistently. A partial sample was collected in Phoenix during the winter season and a partial sample was collected in Tucson during the winter season. Monitoring data for MS4 locations is included in Appendix G.

Monitoring data for maintenance yards and industrial facilities is included in Appendix H.

Discharge Monitoring Reports for Marsh Station and Doubtful Canyon are included in Appendix I.

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¹ Variable results were obtained due to monitoring equipment functionality

6 SSWMP MODIFICATIONS

Permit Section 3.1.6: Provide a description of modifications to the SSWMP each year:

There were no SSWMP modifications during the report year. As mentioned in last year's report, ADOT anticipates updating the SSWMP upon receipt of and action defined as a result of the EPA audit, which commenced in October 2010.

6.1 Addition of New BMPs

Permit Section 3.1.6: Summarize the development and implementation of any new stormwater management practices or pollution controls each year.

ADOT has not developed or implemented any new BMPs during the report year.

6.2 Temporary or Experimental BMPs

Permit Section 3.1.6: Describe the initiation and cessation of such BMPs and the perceived success of the temporary or experimental stormwater control.

ADOT has not instituted any temporary or experimental BMPs during the report year.

6.3 Increase of Existing BMPs

Permit Section 3.1.6: Summarize modifications to existing stormwater management practices that increase the number of activities, increase the frequency of activities, or other increases in the level of implementation.

ADOT reports that no current BMPs have been modified that would cause increases in the number of activities, increase the frequency of activities, or otherwise cause any increases in the level of implementation during the report year.

6.4 Replacement of Existing BMPs

Permit Section 3.1.6: Describe modifications to replace an ineffective stormwater management practice with an alternate practice by demonstrating that the change will continue to achieve an equivalent reduction in pollutants and will not cause or contribute to a violation of any applicable water quality standard.

ADOT has not modified or replaced any current BMPs during the report year.

7 MONITORING LOCATION INFORMATION

Permit Appendix B, Part 4: Provide a brief description of each stormwater monitoring location (outfall), including the following information: 1. The outfall identification number or name; 2. Address or physical location of the site, including the latitude and longitude of the outfall; 3. Size of outfall's drainage area; 4. Land use(s) with an estimated percentage of each use; 5. Name and description of the receiving water; and 6. Type of monitoring equipment used.

Table 7 – Monitoring Location Information

Outfall Name	Physical Location	Approximate Drainage Area	Land Use	Receiving Water / Designated Use	Monitoring Equipment
Flagstaff B40-196.14	Flagstaff: South side of intersection at Business 40 and SR180	29.30 Acres	Rural Highway (80%) &	Rio de Flag / A&Wedw	ISCO Avalanche Full-Size
	Latitude: 35°11'53.39"N Longitude: 111°39'05.48"W		Commercial Streets (20%)	PBC	Portable Sampler

Outfall Name	Physical Location	Approximate Drainage Area	Land Use	Receiving Water / Designated Use	Monitoring Equipment
Phoenix 101-13.68	Peoria: Loop 101 Latitude: 33°37'19.84"N Longitude: 112°14'21.61"W	- 17.5 Acres	Urban Highway (90%) & Commercial Streets (10%)	Skunk Creek / None	ISCO 6712 Full-Size Portable Sampler
Nogales 82.0.57	Nogales: Intersection of I19 and SR82 in NE quadrant Latitude: 31°21'02.10"N Longitude: 110°55'24.48"W	- 59.5 Acres	Urban Highway (80%) & Residential Streets (20%)	Nogales Wash (Impaired waterway) / A&Ww PBC	ISCO 6712 Full-Size Portable Sampler
Sedona 179-313.3	Sedona: At SR179 bridge over Oak Creek Latitude: 34°51'43.93"N Longitude: 111°45'42.68"W	7.35 Acres	State Rout/Business Route (90%) & Commercial (10%)	Oak Creek (Outstanding waterway) / A&Wc FBC, FC, AgL	ISCO Avalanche Full-Size Portable Sampler
Tucson 10-255.8	Tucson: I-10 & Grant Rd, within Grant Rd. Maintenance Yard Latitude: 32°15'17.19"N Longitude: 110°59'49.39"W	4.8 Acres	Urban Highway (90%) & ADOT Facility (10%)	Santa Cruz / A&Wedw PBC	ISCO 6712 Full-Size Portable Sampler

A&Wedw – Aquatic and Wildlife (effluent-dependent water)

A&Ww – Aquatic and Wildlife warmwater A&Wc – Aquatic and Wildlife coldwater AgL – Agricultural Livestock Watering FBC – Full Body Contact FC – Fish consumption PBC – Partial Body Contact

8 STORM EVENT RECORDS

Permit Requirement: For each MS4 outfall monitoring location, provide a summary of all subsequent representative storm events necessary to collect at least one representative stormwater sample (greater than 0.1 inch rainfall) occurring within the reporting period, including the date of each event, the amount of precipitation (inches) for each event, and whether a sample was collected, or if not collected, information on the conditions that prevented sampling.

ADOT completed installation of five MS4 monitoring locations during 2011. However, only two partial samples were collected during the report year because there was inoperable equipment or insufficient flow. A summary of storm event records is included in Appendix J.

9 SUMMARY OF MONITORING DATA

Permit Requirement (Appendix B, Part 9): Provide the outfall identification number, the receiving water, designated uses, and the lowest surface water quality standards applicable to the receiving water. Enter the analytical results for the stormwater samples collected for each season of the reporting period for each year. Include, as an attachment, the laboratory reports for stormwater samples.

Monitoring data and lab reports for Phoenix and Tucson are included in Appendix G.

10 ASSESSMENT OF MONITORING RESULTS

10.1 MS4 Results

As previously stated in Sections 8 and 9, ADOT was unable to consistently conduct stormwater monitoring. Based on available data, there were no exceedances of any surface water quality standards.

10.2 Total Maximum Daily Loads

Permit Requirement (Appendix B, Part 11.D): Assess the effectiveness of BMPs meeting wasteload allocation associated with TMDL.

No Total Maximum Daily Loads have been established for receiving waters associated with the five sampling locations.

10.3 Industrial Results

Permit Requirement (Sections 8.3.3, 8.3.4.1, & 8.5.2.2): Provide a summary of monitoring performed at industrial and construction sites as required in the Permit. Describe any adverse conditions that prevented sampling stormwater discharges. Where facility outfalls are essentially identical, justify the sampling of only one outfall.

Two qualifying events were recorded during the report year. Discharge Monitoring Reports (DMRs) and lab reports for the industrial monitoring is provided in Appendix H.

10.4 Construction Results

ADOT and its contractors conducted in-stream monitoring at two construction projects during the reporting year. DMRs for these in-stream monitoring activities are provided in Appendix I.

10.4.1 Marsh Station I-10 Construction Project

ADOT conducted in-stream monitoring within Cienega Creek located approximately 18 miles south of Tucson along Interstate 10. This monitoring was associated with the realignment of the Union Pacific Railroad and the Marsh Station Road. No discharges occurred during the report year.

10.4.2 Doubtful Canyon SR260 Construction Project

ADOT conducted in-stream monitoring within Doubtful Canyon located approximately 19 miles east of Payson along State Route (SR) 260. This monitoring was associated with a road widening of SR 260. Discharges occurred during the report year in August, October, and December 2011.

10.5 Maintenance Facilities

ADOT conducted additional monitoring at three maintenance yards during the report year. DMRs and associated lab reports for the maintenance facilities are provided with the industrial data in Appendix H.

11 ESTIMATE OF POLLUTANT LOADING

Permit Requirement (Section 8.7.7): Provide an estimate of the pollutant loadings each year from the storm sewer system to waters of the U.S. for each constituent detected by stormwater monitoring within the Permit term.

Estimated pollutant loading reduction calculations for the two of five MS4 sites that experienced qualifying rain events (Phoenix and Tucson) are included in Appendix K.

12 ANNUAL EXPENDITURES

Permit Requirement (Appendix B, Part 13): Provide a summary of the expenditures incurred each reporting period (July 1-June 30) to implement and maintain the stormwater management program, including associated monitoring and reporting activities. Provide the estimated budget for implementing and maintaining the stormwater program in the subsequent reporting period. Include a brief description of the funding sources used to support program expenditures.

ADOT funding is derived from a multitude of local, state, and federal sources.

12.1 Five-Year Construction Program

ADOT's Five-Year Construction Program is the document that expresses how ADOT intends to invest transportation dollars over the next five years and it is updated annually and approved by the State Transportation Board. This year, OES accessed a subprogram for Stormwater Protection (subprogram).

The subprogram sets aside one million dollars per year for five years (2012-2016) as federally reimbursable dollars to pursue infrastructure improvements. Late this report year, the ADOT kicked-off a 22-location, statewide erosion and sediment control project. ADOT intends to use this subprogram to meet Permit requirement 3.2.6.2.d.

With fiscal year 2012 dollars all locations will be investigated to determine. Each site will receive a 15% scope of work to determine baseline conditions and which sites to carry forward and which sites to postpone. Priorities have been assigned to sites that are: 1) within ¼ mile of an Outstanding or Impaired water; 2) contribute to another MS4; 3) near or adjacent to a water of the US; and, 4) exhibiting general erosion.

This subprogram is estimated to roll out and allocate 2013-2016 funds to new projects, augment existing construction projects with a stormwater component, or construct those designed with FY 2012 money. OES will continue to evaluate the need for individual projects, or participate in cost-share with other subprograms (i.e. pavement preservation, safety, roadway, bridge) to utilize cost savings where projects are programmed and retrofits for stormwater protection are warranted.

12.2 Highway Maintenance Program

Maintenance stormwater issues will be state funded and covered under the Highway Maintenance Program. While maintenance yards are not eligible for federal reimbursement (subprogram), infrastructure improvements or retrofits that involve installation of BMPs, modifying drainage, and may otherwise serve to improve water quality may qualify for the subprogram on a site by site basis. Otherwise, routine BMP maintenance items would be funded during the annual legislative-approval process.

12.3 Administrative Budget

The Administrative Budget is an additional source of state funding for ADOT and is appropriated by the Arizona Legislature. As part of the Administrative Budget, ADOT receives approximately \$62,000,000 in state funds for administrative purposes.

12.3.1 Office of Environmental Services Budget

Expenditures include nearly \$1,000,000 in converting SWPPs to FPPs and preparing new FPPs for all ADOT yards, \$40,000 on training templates for two-thirds of the yards, \$86,000 on outfall mapping assessments, and \$103,000 to purchase, install, and maintain monitoring equipment.

13 ADOT MS4 AUDIT

13.1 Update of 2010 EPA Audit

The EPA contacted and met with ADOT staff in June 2012 to discuss progress made in mapping outfalls and inventorying post-construction BMPs. It is anticipated that additional information will be available in the next annual report.

APPENDIX A Narrative Summary of SSWMP Activities

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
BEST MANAGEMENT PRACTICES	3.2.1.1, 3.2.1.2, and 3.2.1.3	4.0	Section 4.0 of the 2010 SSWMP details the Best Management Practices (BMPs) to improve operations and reduce pollution at or within ADOT facilities, Statewide and District Maintenance, MS4s, industrial facilities, and material sources. This includes:
			Measures to control discharges through education. Ninety percent (90%) of appropriate staff were trained via six online classes. Refer to numeric summary of BMPs in Appendix F.
			ADOT produced 91 facility pollution prevention plans for maintenance facilities statewide. Training is scheduled to commence in 2013.
			ADOT kicked off a statewide erosion and sediment control project in June 2012. Design and construction is scheduled to commence in 2013.
A. MEASURES TO CONTROL DISCHARGES THROUGH EDUCATION	3.2.2	4.1	ADOT's stormwater education program includes training, public education and outreach, public participation and involvement, and intra and intergovernmental coordination.
1. ADOT Employee Training	3.2.2.1(a)	4.1.1	ADOT has developed training curricula, as well as a system for administering, tracking, and providing training to all appropriate personnel. New employees receive training within the first year of hire or within the first year of the change in their responsibilities. Refresher training is required at least once every three years. 4,643 online classes were taken during the report year.
			ADOT continues to improve intergovernmental coordination by routinely attending stormwater meetings with four stormwater groups, two in central Arizona, one in northern AZ, and one in southern AZ.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
a. Stormwater Awareness Training	3.2.2.1(a) (i)	4.1.1.2	General Stormwater Training is required to educate personnel at all levels of responsibility who are involved in activities that may impact stormwater quality and those staff who may come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system.
			General stormwater training online resulted in 80 of 90 required staff to be trained during the report year.
b. Specific Stormwater Training	3.2.2.1(a) (ii)	4.1.1.3	Specific stormwater training is required to educate personnel who are directly involved in activities that may impact stormwater quality or that may generate or manage non-stormwater discharges. Five focused stormwater training sessions were developed to include:
			Good Housekeeping: Pesticides and Fertilizers (654 of 673 were trained)
			Good Housekeeping: Waste Disposal and Industrial Sites (971 of 1040 were trained)
			Non-Stormwater & Illicit Discharges and Illegal Dumping (973 of 1040 were trained)
			Stormwater Management – Construction Disturbances (932 of 1006 were trained); and
			Storm Sewer System and Highway Maintenance (906 of 966 were trained).
c. Stormwater Library	3.2.2.1(a) (iii)	3.3	This library is a virtual library available at: http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/Manuals.asp .
			The page was visited 365 times during the report year.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
2. ADOT Construction Contractor Training and Certification	3.2.2.1(b)	4.1.2	ADOT requires all contractor's inspectors to participate in the Construction Contractor Training and Certification Course offered by the Arizona Association of General Contractors to become an Erosion Control Coordinator (ECC) on ADOT projects. The 16 hour ECC training course covers the erosion and sediment control BMP requirements in the AZPDES CGP and inspection and maintenance of these BMPs. There is a refresher component, currently required for ADOT staff, every three years.
			192 personnel were trained during the report year (refer to Numeric Summary in Appendix F for additional information).
3. Erosion and Pollution Control Manual	3.2.2.1(c)	4.1.3	The Erosion and Pollution Control Manual addresses the selection, design, installation and maintenance of effective erosion, sediment, and waste control BMPs that ADOT uses for stormwater and non-stormwater discharges.
			ADOT provides updates to the manual as needed.
4. Public Education and Outreach	3.2.2.2	4.1.4	Public education and outreach are ongoing efforts by ADOT to inform members of the general public about actions individuals can take to reduce transportation-related pollutants and improve water quality.
			ADOT participates in annual workshops to assist with public outreach. Two were attended during the report year.
a. Program Description	3.2.2.2(a)	4.1.4.1	The target audience of this program component is the construction industry and the public (highway users). Target pollutants include sediment transport from construction sites, litter, spills, and illicit discharges.
			There were no changes to the program during the report year.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
b. Distribution of Materials through Public Places	3.2.2.2(b) (i)	4.1.4.2	ADOT distributes material through participation in four regional stormwater groups, Arizona Clean and Beautiful, and Don't Trash AZ.
			ADOT distributes educational material through pamphlets, posters, highway variable message boards, bus stop posters, TV advertisements, radio announcements, and booths at local events.
			ADOT continues to attend monthly meetings with STORM and quarterly meetings with PAG; as a member of these outreach venues, ADOT is affiliated with regional outreach efforts as described in the respective annual reports.
			Additional efforts to coordinate with other Phase I and Phase II municipalities are handled by attending semi-annual meetings with the Phase I Coalition and the Northern Arizona Stormwater Pollution Alliance.
c. Distribution of Materials through ADOT's Stormwater Web Page	3.2.2.2(b) (ii)	4.1.4.3	ADOT maintains a webpage that contains a number of links to other organizations who play a role in stormwater management (ADEQ, EPA, FHWA, etc).
			ADOT's stormwater website can be accessed via:
			http://www.azdot.gov/Inside_ADOT/OES/Water_Quality/Stormwater/Index.asp
5. Public Involvement and Participation	3.2.2.3	4.1.5	Public involvement and participation are ongoing efforts that ADOT participates in via regional educational outreach to improve water quality statewide.
a. Public Availability of Stormwater Documents	3.2.2.3(a)	4.1.5.1	Distribution of materials is continually accomplished via the ADOT stormwater website, STORM, and PAG.
b. Public Comments	3.2.2.3(b)	4.1.5.2	ADOT gathers public comments on the SSWMP via phone.
c. Public Reporting System	3.2.2.3(c)	4.1.5.3	ADOT implemented a hotline for illicit discharges and illegal dumping.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
d. Adopt-A-Highway	3.2.2.3(d)	4.1.5.4	The Adopt-A-Highway program allows individuals to adopt a highway as a volunteer or through a maintenance provider as a sponsor.
e. Litter Hotline	3.2.2.3(e)	4.1.5.5	The litter hotline includes a toll free number and an online reporting form for citizens to report litterers.
6. Intra and Inter-Governmental Coordination	3.2.2.4	4.1.6	Intra and Inter-Governmental Coordination is a program that includes coordination mechanisms and program enforcement procedures among divisions, groups, sections and districts within ADOT and stakeholders to ensure compliance with the terms of the Permit.
			ADOT attended 10 intergovernmental workshops this report year and updated the Stormwater Enforcement Response Plan in 11/2011 to improve coordination with MS4s.
a. Internal Coordination	3.2.2.3(a)	4.1.6.1	Various departments among ADOT strive together to achieve the goals of the Permit. OES administers the Permit, provides training, guidance, and outreach, and responds daily to inquiries. OES plans to hire an Environmental Trainer in 2013 to enhance training and outreach efforts. Several districts entrust the District Environmental Coordinator with local training classes.
			Meetings among ADOT staff are set up on an as-needed basis.
b. Intergovernmental Coordination	3.2.2.3(b)	4.1.6.2	ADOT coordinates with stakeholders, e.g., the Federal Highway Administration, Bureau of Land Management, Department of Agriculture Forest Service, Arizona State Land Department, Metropolitan Planning Organizations, Councils of Governments, and regional stormwater groups.
			OES attends meetings with these groups at least annually.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
B. ILLICIT DISCHARGE/ ILLEGAL DUMPING DETECTION AND ELIMINATION MEASURES	3.2.3 3.2.3.1(a)		The IDDE program serves to detect, investigate, and minimize or eliminate illicit discharges in the ADOT MS4.
1. Minimizing Illicit Discharges and Illegal Dumping	3.2.3.1		ADOT's district staff are the primary staff to identify any illicit discharges. These field personnel routinely perform visual inspections of infrastructure and are cross-trained to look for, document, report, and track illicit discharges and illegal dumping.
			Illicit discharges and illegal dumping are reported to OES for tracking and following up, as needed, and at least annually for the report year.
a. Encroachment Permit Enforcement	3.2.3.1(b)	4.2.1.1	ADOT implements and enforces encroachment permits and external party requirements for activities within ADOT's right-of-way. There were no changes to this program during the report year.
b. Maintenance and Facilities Best Management Practices (BMPs) Manual	3.2.3.1(c)	4.2.1.2	The BMP Manual describes the selection criteria, design, installation and maintenance of effective BMPs to minimize pollutants in ADOT's non-stormwater discharges. There were no changes to this manual during the report year.
c. Authorized Non-Stormwater Discharges	3.2.3.1(d)	4.2.1.3	ADOT discharges certain authorized non-stormwater discharges and implements BMPs to minimize contaminants that may result from these contributions. BMPs for reducing erosion, sedimentation, and stormwater contamination are outlined in the Erosion and Pollution Control Manual and the Maintenance and Facilities BMP Manual.
			There were no changes to these manuals during the report year.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
d. Training	3.2.3.1(e)	4.1.1.3	973 staff were trained during the report year.
2. Detecting Potential Illicit Discharges and Illicit	3.2.3.2		Implement BMPs to detect illicit discharges and illicit connections. ADOT detected 9 illicit discharges and eliminated 7 during this report. One
Connections			connection was found to be permitted and another requires additional coordination and follow-up.
a. Outfall Inventory	3.2.3.2 (a)	4.2.2.1	ADOT has assessed all potential outfalls in three of nine districts during the report year. Consultants reviewed 1,850 miles of highway and estimated 1,681 could be considered outfalls by the current Permit definition.
b. Storm Sewer System Map	3.2.3.2 (b)	4.2.2.2	Based on the preliminary results of the Outfall Inventory, ADOT revisited the approach of utilizing ADOT FIS (all drainage features) to determine whether the mapping effort would be manageable.
			No mapping was completed during the report year.
c. Stormwater Monitoring Guidance Manual for MS4 Activities	3.2.3.2(c)	3.3.7	This guidance manual provides the procedures used by ADOT personnel to conduct Permit-required monitoring associated with MS4 activities. This monitoring includes dry weather screening for illicit connections and illicit discharges and seasonal wet weather monitoring.
			There were no changes to this manual during the report year.
d. Dry Weather Screening	3.2.3.2(d), (e)	4.2.2.4	ADOT has been successful in implementing a dry weather outfall screening and discharge characterization program in two districts (Flagstaff and Phoenix).
			Dry weather screening occurred at 51 locations during the report year. Refer to Appendix B for inspection results.
e. Training	3.2.3.2(f)	See 4.1.1.3	906 staff were trained during the report year.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
3. Investigating Potential Illicit Discharges	3.2.3.3		Implement practices and procedures to investigate potential illicit discharges.
a. Establish illicit discharge investigation procedures	3.2.3.3 (a)	4.2.3.1	ADOT's 'Dry Weather Field Screening Sites' portion of the Stormwater Monitoring Guidance Manual for MS4 Activities describes procedures to investigate potential illicit discharges and illegal dumping to identify possible sources. There were no changes to this manual during the report year.
b. Investigate Illicit Discharges (Source Identification)	3.2.3.3 (b) 3.2.3.3 (c) and 3.2.3.4(d)	4.2.3.2 4.2.3.3 and 4.2.3.4	ADOT initiates investigations and responds to complaints within 15 days from the date of detection or report of an illicit discharge. ADOT maintains an .xl spreadsheet to track reports and follow-up actions of illicit discharges and illegal dumping. Nine illicit discharges were reported and 7 were subsequently removed during the report year.
c. Incidental Dry Weather Discharge Reporting	3.2.3.3(d)	4.2.3.4	ADOT field staff reports dry weather discharges to OES for tracking. Within 15 days of detection ADOT initiates appropriate follow-up action to eliminate or document the discharge as permitted. One dry weather discharge in Flagstaff (SR 89, MP 371.71) was found to be permitted by ADEQ. Refer to inspection reports in Appendix B.
4. Eliminating Illicit Discharges and Illegal Dumping	3.2.3.4		Eliminate Illicit Discharges and Illegal Dumping

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
a. Eliminate Existing Dry Weather Flows	3.2.3.4 (a)	4.2.4.1	This temporary BMP required ADOT to investigate and eliminate (if warranted) the sources of existing dry weather flows from the six major outfalls in the July 21, 2005 Summary Report – Dry Weather Screening within the first 90 days of the permit.
			ADOT completed this requirement during the first report year.
b. Eliminate Sources of Illicit Discharges	3.2.3.4 (b)	4.2.4.2	ADOT takes action to eliminate source(s) of illicit discharges within 90 days of detection using ADOTs legal authority (Stormwater Enforcement Response Plan) to terminate illicit discharges and illegal dumping.
			Nine illicit discharges were detected, with seven subsequently removed during the report year.
c. Coordinate with Local Jurisdictions for Complaint Response and Investigation	3.2.3.4 (c)	4.2.4.3	ADOT may coordinate with other jurisdictions, including ADEQ, for assistance in enforcement where ADOT lacks legal authority or if an illicit discharger fails to comply with ADOT procedures.
			The Stormwater Enforcement Response Plan was updated in November 2011 to expand on coordination with MS4s.
d. Record Actions	3.2.3.4(d)	4.2.3.2	ADOT maintains an .xl spreadsheet to track reports and follow-up actions of illicit discharges and illegal dumping. Refer to Appendix C.
5. Responding to Spills	3.2.3.5	4.2.5	ADOT responds to spills as a result of highway accidents and emergencies and implements guidance from the Arizona Department of Emergency Management Plan, ESF-10 Oil and Hazardous Materials Annex.
			ADOT has maintained an emergency response team and responded to 17 incidents that discharged hazardous materials into a storm drain or waterway. Refer to Annual Report Section 3.6 for additional information.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs
C. MEASURES TO CONTROL DISCHARGES FROM NEW CONSTRUCTION AND LAND DISTURBANCES	3.2.4		Description of a program to reduce the discharge of pollutants from construction sites.
1. Applicability of Construction Requirements	5.1	4.3.1	This BMP contains the requirement for all construction sites and activities that are owned, operated, or contracted by ADOT to comply with provisions of the Permit.
			There were no changes to construction requirements during the report year.
2. Construction Site SWPPPs	5.2	4.3.2	ADOT requires all construction sites over 1-acre of disturbance to develop a Construction SWPPP.
			There were no changes to construction requirements during the report year.
a. General Requirements	5.2.1	4.3.2	ADOT or its contractor(s) develop and implement construction site SWPPs for certain construction sites. SWPPs are maintained on the site and at the appropriate ADOT Office.
			There were no changes to construction requirements during the report year.
b. Site and Activity Description	5.2.2	4.3.2	ADOT templates contain the required components of a SWPPP including a site description, map, receiving waters, monitoring program, potential pollutants sources, and off-site material storage areas.
			There were no changes to construction requirements during the report year.

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
c. BMPs to Reduce Pollutants	5.2.3	4.3.2	ADOT outlines the criteria for selection, installation, and maintenance of I for inclusion in Construction SWPPs. BMPs are contained in the Erosion Pollution Control Manual, Maintenance and Facilities BMP Manual, Post-Construction Stormwater Control BMP Manual, Stormwater Monitoring Guidance Manual for Construction Activities, and Stormwater Monitoring Guidance Manual for MS4 Activities. There were no changes to construction requirements during the report year	
d. Construction Inspections	5.2.5	4.3.2	ADOT requires routine inspections of construction sites to ensure BMPs are functional and effective and that the SWPPP is being properly implemented. Routine inspections are conducted jointly by ADOT and the project Erosion Control Coordinator in accordance with AZPDES permit coverage for the subject project.	
			Routine inspections have occurred as required during the report year.	
e. Construction BMP Maintenance	5.2.4	4.3.2	ADOT requires a maintenance plan for all erosion and sediment control BMPs. The ECC and/or Resident Engineer are responsible for oversight of the requirements of this section, including maintaining all BMPs in effective operating condition, performing maintenance of ineffective BMPs within seven days of discovery and before the next anticipated storm event, and removing sediment from sediment traps when the design capacity has been reduced by 50%.	
			There were no changes to this construction requirement during the report year.	
f. SWPPP Updates	5.2.6	4.3.2	ADOT requires updates to the construction site SWPPP to be documented within 14 days following an inspection.	
			Site construction SWPPPs have been updated as required.	

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
3. Operators under Contract to ADOT for Performing Construction Activities	5.3		Requires compliance with the construction general permit.	
a. Compliance with Construction General Permit	5.3.1	4.3.3.1	ADOT requires contractors to comply with the AZPDES CGP for regulated construction projects through contract specifications (104.09), which accommodates two types of projects (designated sensitive and standard). ADOT began discussion among various organizations within ADOT in June 2012 to rewrite the entire specification to streamline adherence to the CGP.	
b. NOT - Transfer of Responsibility to ADOT	5.3.2	4.3.3.2	ADOT contractors file an NOT after temporary stabilization efforts have been completed and a 45-day grace period for seeding germination has lapsed. ADOT may assume responsibility or require remedial actions if seeding or temporary stabilization fail. If ADOT assumes the project by allowing the contractor to file an NOT, then ADOT maintains the project SWPPP and all associated requirements until final stabilization is deemed complete (by another organization in ADOT). There were no changes to this construction requirement during the report year.	
c. Completed Construction Site Inventory	5.3.3	4.3.3.3	Twice per year (by July 10 and January 10) ADOT provides ADEQ with an electronic list of all construction projects, including the name of the project and its associated AZCON number(s), that have achieved final stabilization and that ADOT considers to be complete. This serves as a collective NOT for ADOT projects. The inventory was provided to the ADEQ as required. 52 project locations	

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
d. Enforcement Tracking and Reporting	5.3.4	4.3.3.4	ADOT maintains a list and description of all violations and their resolution, including any enforcement actions taken against its contractors. ADOT achievenforcement actions through implementation of the Stormwater Enforcement Response Plan. The list is generated from the inspection letters from Construction Site Inspectors. The Resident Engineer is responsible for maintaining a file for all findings and to report violations to OES.	
			ADOT has maintained a list and had no violations during the report year.	
D. MEASURES TO CONTROL DISCHARGES FROM NEW DEVELOPMENT AND REDEVELOPMENT	3.2.5	4.4	Develop and implement a comprehensive planning procedure and BMPs to prevent or minimize water quality impacts from new highway development and redevelopment.	
1. Post-Construction Stormwater Control BMP Manual	3.2.5.1	4.4.1	This guidance manual details the post-construction BMPs that ADOT uses to comply with the Permit. The manual identifies factors for consideration during selection of BMPs and provides BMP design guidance	
			There were no changes to this manual during the report year.	
2. Install post-construction stormwater control BMPs	3.2.5.2	4.4.2	ADOT requires post-construction stormwater control BMPs be installed for all newly developed or redeveloped roadways that discharge stormwater runoff to impaired or unique waters.	
			There were no changes to this requirement during the report year.	
3. Inventory, inspect, and maintain all post-construction stormwater pollution control BMPs	3.2.5.3 and 3.2.6.1(a)	4.4.2	ADOT is drafting policy to guide staff in developing an inventory, and will proceed with inspecting and maintaining all post-construction BMPs in 2013.	

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
4. Training	3.2.5.4	4.1.1.3	932 staff were trained this report year.	
E. MEASURES TO CONTROL DISCHARGES FROM ROADWAYS	3.2.6		ADOT shall continue to implement programs to repair roadways and associated storm sewer, maintenance, cleaning, vegetation management, and winter storm policies to reduce pollutant releases.	
Maintenance and Facilities Best Management Practices Manual	3.2.6 (a) and (b)	4.2.1.2	The Manual describes the selection criteria, design, installation and maintenance of effective BMPs to minimize pollutants in ADOT's non-stormwater discharges.	
			There were no changes to this manual during the report year.	
2. Storm Sewer System and Highway Maintenance	3.2.6.1		ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure. ADOT initiated multiple policies to address BMPs and erosion and sediment control. A statewide project to inventory and address deficiencies commenced in June 2012.	
a. Inventory Post-Construction Stormwater Pollution Control BMPs	3.2.6.1(a)	4.5.2.1	ADOT shall develop and maintain an inventory of its post-construction stormwater pollution control BMPs. ADOT will inventory BMPs in 2013.	
b. Inspect Storm Sewer System	3.2.6.1 (b)	4.5.2.2	ADOT shall implement a system to inspect and record the condition of the storm sewer system.	
			ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.	

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
c. Develop Maintenance Schedules and Priorities	3.2.6.1 (c)	4.5.2.3	ADOT shall identify routine maintenance schedules and maintenance priorities for its storm sewer system and evaluate priorities annually.	
			ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.	
d. Stormwater System Repair, Maintenance, and Cleaning	3.2.6.1(d), (e), and (f)	4.5.2.4	ADOT shall continue to repair, maintain, and clean its roadways to minimize pollutant discharge; and shall ensure that all storm drain inlets are assessed for evidence of illicit discharge or illegal dumping	
			Routine repair and maintenance occur statewide, as needed, and are tracked after the fact.	
			ADOT is drafting policy to guide staff in prioritizing storm sewer inspection and maintenance of highway infrastructure.	
e. Training	3.2.6.1 (g)		906 staff were trained during the report year.	
3. Roadside Maintenance Program	3.2.6.2		ADOT shall continue to implement the BMPs described in its Highway Maintenance Program, specifically BMPs related to Vegetation Control.	
a. Pesticide and Fertilizer Application	3.2.6.2(c)		Implement practices and procedures, develop BMPs, use only aquatic pesticides in areas within or directly adjacent to waters of the US, and review practices annually.	
			With issuance of the federal and state AZPDES Pesticide General Permits, ADOT began a thorough review of standard practices regarding the application of pesticides to waters of the US. ADOT continues to educate staff and coordinate pesticide application with federal partners on tribal and non-tribal land statewide. Two outreach efforts were conducted in 2012.	

New Table of Contents	Permit Reference	2010 SSWMP Reference	Description and Implementation of BMPs	
i. Optimize Chemical Applications	3.2.6.1 (c)(i)	4.5.3.1	With issuance of the federal and state AZPDES Pesticide General Permits, ADOT will monitor chemical applications in accordance with the relevant pesticide use permit when applying herbicides to or near waters of the US.	
ii. FIFRA Certification	3.2.6.1 (c)(ii)	4.5.3.2	ADOT personnel maintain FIFRA certification(s) as required.	
iii. Training	3.2.6.2 (c)(iii)	4.1.1.3	654 staff were trained during this report year.	
b. Erosion Abatement Projects	3.2.6.2(d)	4.5.3.4	ADOT shall develop a system to indentify, track, and prioritize timely stabilization and repairs to road segments, not covered by the Construction part of this Permit, where slopes are 3:1 or greater and actively eroding and sediment is leaving the ADOT right-of-way or discharging to a water of the US.	
			A statewide project to inventory and address erosion and sediment control was kicked off in June 2012. Districts submitted 22 locations statewide and were approved for evaluation. ADOT will continue to assess these locations in FY 2013.	
4. Winter Storm Policies	3.2.6.3	4.5.4	ADOT implements BMPs to minimize stormwater impacts from application of salt, de-icing and anti-icing chemicals, abrasives for snow and ice removal, salt and sand storage, and snow disposal areas. These BMPs are described in the Winter Storm Management Arizona Highways Environmental Overview, Winter Storm Management of Arizona Highways Operations Manual, and Maintenance and Facilities BMP Manual.	
			There were no updates to this manual during the report year.	

APPENDIX B Dry Weather Field Screening Reports



DRY WEATHER FIELD SCREENING SITE REPORT

General Information						
Outfall Name/ID: SR 89A - MP 371.71						
Date: 1-3-12 Time: 3:30 pm Amount of time since last rainfall: 12-20-11 (14 days)						
Inspector(s): Kurt Harris						
Immediate Surrounding Land Use Type: (circle one) Industrial Commercial Residential Municipal Agriculture Mixed Unknown						
Receiving Water: Carrol Canyon (water of the U.S., USGS map waters, or ADEQ designated waters)						
Access Instructions: EB, West Sedona & Deer Trail Drive (nearest intersection or landmark)						
I. Outfall Information						
Type Shape Material Dimensions Condition X Single X Box CMP less than 6" X Good Double Circular HDPE 12"-35" Poor Triple Elliptical PVC 36"-59" Needs work (explain) Other: Trapezoid RCP X 60" and greater Parabolic Steel Other: X Concrete Earthen Rip-rap Other: Photograph of Outfall (note file name):						
Flow* Smell Floatables Vegetative/Algae Deposits						
Dry X None X None X None X Slow Musty Sewage Normal X None						
Moderate Sewage Oil sheen Excessive Oil						
Fast Rotten eggs Soap suds Inhibited Other: Solvent Other: (If no flow but						
Chlorine excessive or						
inhibited						
Other: growth, schedule additional site visit).						

Visual Observations							
(If flow is present complet	(If flow is present complete the following and schedule additional site visit. Report discharge to ADOT Water Quality Group and conduct source investigation within 15 days. See Appendix A, Section G of the ADOT permit for						
	rce identification investigations.)		Tou G of the WDO1 betuin for				
1 st Visit	T	_	2 nd Visit (>4 hours and <24 hours later)				
Date/Time: 1-3-12 at 3:30	0	Date/Time:					
Precipitation <96 hours?	Yes / No	Precipitation <96 hours?	Yes / No				
Flow? < 0.1 cfs	Yes / No	Flow?	Yes / No				
pH: :su	Color: #	pH::su	Color: #				
Cl2:ppm	Ammonia:ppm	Cl2:ppm	Ammonia:ppm				
Cu:ppm	Oil sheen: Y / N	Cu:ppm	Oil sheen: Y / N				
Phenols:ppm	Surface scum: Y / N	Phenols:ppm	Surface scum: Y / N				
Deterg:ppm	Air Temp:°F	Deterg:ppm	Air Temp:°F				
Turbidity:NTU	Water Temp:°F	Turbidity:NTU	Water Temp:°F				
1	nain of Custody Record for example form)	Attach copy of Chain of Custody Record (see manual for example form)					
Physical Observations (circle appropriate, for Deposits: none sediments)	"other" write in description)	Physical Observations (2 nd Visit): (circle appropriate, for "other" write in description) <u>Deposits</u> : none sediments oily other					
Odor: none musty	sewage rotten eggs	Odor: none musty	sewage rotten eggs				
solvent chlorii	ne other	solvent chlori	ne other				
Biological: none fish	algae other	Biological: none fish	n algae other				
Signature: Kustis G Harris	,	Signature:					
1 st Visit		2 nd Visit (>4 hours and	<24 hours later)				
Use one of the following:		Use one of the following:					
A. Free Fall into containe Volume: (gal)		A. Free Fall into container: Volume:(gal) Time:(sec)					
B. Channel/pipe Flow (p	'	B. Channel/pipe Flow (provide sketch):					
1	Width:(in)	1	Width:(in)				
Velocity:	(ft/sec)	Velocity:	(II/Sec)				
Discharge estimate:	(gpm)	Discharge estimate:	(gpm)				

Additional Notes (sketch [use additional sheets if necessary], flow data, observations): Outfall discharge was determined to be a De Minimus Permit discharge permit no. AZG2010-001 from a local public water well. This was confirmed by Keith Self, AZ Water Co. (928) 282-5555 (PW SID 03-003, POE 006), SW Center Well #8, DWR#55-61666 to alleviate water hammer. Discharge is up to 620 gallons per minute.



AZPDES Permit No. AZG2010-001 NOTICE OF INTENT (NOI)

for De Minimis Discharges to Waters of the United States
• AREAWIDE, FACILITY-WIDE, PROJECT-WIDE •

FOR COVERAGE, A COMPLETE AND ACCURATE NOI MUST BE FAXED OR SUBMITTED TO:

Arizona Department of Environmental Quality; Surface Water Section — De Minimis Program 1110 West Washington, 5415A-1; Phoenix, Arizona 85007 FAX: (602) 771-4528

A. GENERAL INFORMATION						
1. TYPE OF COVERAGE REQUESTED (select one): Areawide Facility-wide Project-wide						
2. NAME OF AREA, FACILITY, OR PROJECT: Arizona Water Company - Sedona, PWSID 03003						
3. OWNER of the facilities or discharge activities						
Contact Name: Judd Williams Position/Title: VP - Operations						
Business/Agency: Arizona Water Company Phone: (602) 240-6860						
Mailing Address: PO Box 29006						
City: Phoenix State: AZ Zip Code: 85038						
Fax: (602) 240-6878 e-mail: jwilliams@azwater.com						
4. OPERATOR of the facility or discharge activity (if different from OWNER)						
Contact Name: Keith Self Position/Title: Divison Manager						
Business/Agency: Arizona Water Company Phone: (982) 282-5555						
Mailing Address: 65 Coffee Pot Drive						
City: Sedona State: AZ Zip Code: 86336						
Fax: (982) 282-6131 e-mail: kself@azwater.com						
5. OTHER CONTACT (if different from OWNER / OPERATOR)						
Contact Name: Regina Lynde Position/Title: Environmental Compliance						
Business/Agency: Arizona Water Company Phone: (602) 240-6860						
Mailing Address: PO Box 29006						
City: Phoenix State: AZ Zip Code: 85038						
Fax: <u>(602) 240-6878</u> e-mail: <u>rlynde@azwater.com</u>						
6. OTHER ENVIRONMENTAL PERMITS HELD OR APPLIED FOR BY THE APPLICANT (related to the discharge) (Reference Permit Numbers & Type: previous De Minimis authorizations, UST; RCRA, APP, etc.) AZDGP-AW0118						

B. DISCHARGE INFORMATION				
DISCHARGE INFORMATION FORM(S) AND MAP(S) must be enclosed with this form. V Discharge Information Form(s) enclosed. V Map(s) enclosed showing the area, facility, or project boundary and known discharge locations.				
C. BEST MANAGEMENT PRACTICES PLAN (BMPP)				
I confirm that a BMPP covering all discharges described in attached Tables 1 and 2 is enclosed with this submittal.				
Contact Name for BMPP: Regina Lynde Phone:				
Business/Agency: Phone:				
Mailing Address:				
City: State: Zip Code:				
Fax: e-mail:				
C. CERTIFICATION (per Part V.K.1 of the General Permit)				
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, I believe the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition I certify that the operator will comply with all terms and conditions stipulated in General Permit No. AZG2010-001 issued by the Director."				
Printed Name of Signer: Keith Self Signature: Date: 8/0/0				
Signature:				
Signer or Business/Agency is the: Owner and Operator of the facility or discharge activity.				
(check one) Operator of the facility or discharge activity.				

April 2010



DRY WEATHER FIELD SCREENING SITE REPORT

	SHE KEPUKI						
General Information	<u>n</u>						
Outfall Name/ID: 89	A – mile post 371.21	– 10' x 4' CBC					
Date: 4/13/12 Time:	2 pm – 3 pm Am o	ount of time since la	st rainfall: 30 days				
Inspector(s): Kurt Ha	arris, PE						
Immediate Surroundi Industrial Comm	ing Land Use Type: mercial Residential	1,11,111,111,111,111,111,111,111,111,111,111,111,111,111	iculture Mixed Unki	nown			
Receiving Water: Ca		USGS map waters, or A	ADEQ designated waters)	111111111111111111111111111111111111111			
Access Instructions:	EB 89A, West Sedon	na & Deer Trail Drive (nearest intersection		and the state of t			
I. Outfall Information							
Type Single Double Triple X Other: 2 - CMP's & 1 CBC Photograph of Out	x Box Circular Elliptical Trapezoid Parabolic 2- Other: 7'X4' CMPs Shape Box Circular Elliptical Trapezoid Parabolic Other: 7'X4'	Material CMP HDPE PVC RCP Steel x Concrete Earthen Rip-rap Other:	Dimensions less than 6" 12"-35" 36"-59" x 10' x 4'	Condition X Good Poor Needs work (explain) Outlet 4-13-12			
II. Outfall Discharge							
Flow* Dry x Slow Moderate Fast	Smell x None Musty Sewage Rotten eggs Solvent	Floatables X None Sewage Oil sheen Soap suds Other:	Vegetative/Alga X None Normal Excessive Inhibited (If no flow but	e Deposits x None Sediment Oil Other:			

Other:

inhibited

growth, schedule

additional site visit).

Quality Group and conduc	ete the following and schedule add ct source investigation within 15	days. See Appendix A, Sect	scharge to ADOT Water tion G of the ADOT permit for			
further information on source identification investigations.)						
	2.22	2 nd Visit (>4 hours and ·	·			
Date/Time: 10/14/11 at 3	A	1				
Precipitation <96 hours? Flow?	Yes / No Yes / No	Precipitation <96 hours? Yes / No				
	· · · · · · · · · · · · · · · · · · ·	Flow?	Yes / No			
pH::su	Color: #	pH::su	Color: #			
Cl2:ppm	Ammonia:ppm	Cl2:ppm	Ammonia:ppm			
Cu:ppm	Oil sheen: Y / N	Cu:ppm	Oil sheen: Y / N			
Phenois:ppm	Surface scum: Y / N	Phenols: ppm	Surface scum: Y / N			
Deterg:ppm	Air Temp:°F	Deterg:ppm	Air Temp:°F			
Turbidity:NTU	Water Temp:°F	Turbidity:NTU	Water Temp:°F			
, -	hain of Custody Record for example form)	Attach copy of Chain of Custody Record (see manual for example form)				
Physical Observations (1 st Visit): (circle appropriate, for "other" write in description) Deposits: none sediments oily other		Physical Observations (2 nd Visit): (circle appropriate, for "other" write in description) <u>Deposits</u> : none sediments oily other				
Odor: none musty	sewage rotten eggs	Odor: none musty	sewage rotten eggs			
solvent chlorin	ne other	solvent chloring	ne other			
Biological: none fish	algae other	Biological: none fish	algae other			
Signature:		Signature:				
		<u>I</u>				
1 st Visit		2 nd Visit (>4 hours and <	<24 hours later)			
Use one of the following:		Use one of the following:				
A. Free Fall into container: Volume:(gal) Time:(sec)		A. Free Fall into container: Volume:(gal) Time:(sec)				
B. Channel/pipe Flow (provide sketch):		B. Channel/pipe Flow (provide sketch):				
Depth:(in)		Depth:(in) Width:(in)				
Velocity:	(ft/sec)	Velocity:	(ft/sec)			
Discharge estimate: Abou	ut 2.5 (gpm)	Discharge estimate:	(gpm)			

Additional Notes (sketch [use additional sheets if necessary], flow data, observations): Two additional elliptical 7'X4' CMP's were installed adjacent to the existing box culvert. No additional flows were observed from last inspection. Outlet walls floors are gunite coated to protect from erosion.

Structure Name: 48" circular concrete p	ipe	
Outfall Location Code: 10-130.20 Receiving Water: Aqua Fria River Access Instructions: Park in parking lo W. Van Buren St.	L.U.Type: Commercial t northwest side of intersection of Agua Fria River and	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 48" circular concrete pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/15/2011 1130		
Precipitation <96 hours? Yes / No Yes / No		
pH: :su /	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: Yolu Burtur		

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1 "	Vi	ISI	1

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in) Velocity: (ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking west at outfall 10-130.20 under W. Van Buren

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Not all debris identified is from outfall. May be caused by windblown and/or transients

Structure Name: Open Channel		
Outfall Location Code: 10-130.30	L.U.Type Mixed Use	
Receiving Water: Agua Fria Rivers		
Access Instructions: Park on west side of	of the Avondale Friendship Park and walk west to river.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): Open channel 80'W x 12'D	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/15/2011 1137		
Precipitation <96 hours? Yes / No		
Flow? Yes No		
pH::su	Color: #	
C12:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: musty sewage	rotten eggs solvent chlorine other	
Biological: fish algae other		
Signature: John Burty		

1 st	Visit
Us	te one of the following:
A.	Free Fall into container:
	Volume:(gal) Time;(sec)
В.	Channel/pipe Flow (provide sketch):
	Depth:(in) Width:(in)
	Velocity: (ft/sec)

(gpm)

Photograph of Outfall (record roll number and exposure number)



C. Discharge estimate:

Looking southeast at outfall 10-130.30 towards end of open channel entering Agua Fria

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Excessive growth at outfall to Agua Fria

Structure Name: West Tunnel		
Outfall Location Code: 10-145.17	L.U.Type Commercial/Residential	
Receiving Water: Salt River		
Access Instructions: Access at north side	of Salt River along west side of Central Avenue	
For discrepancies or omissions only: Outfall type, shape, material, and dime	nsions (see manual for codes): 21' tunnel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited grov	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: <u>12/21/2011 1040</u>		
Precipitation <96 hours? Yes/ No		
Flow? Yes No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface seum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
NOTES NO	of Chain of Custody Record ual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	ther	
Odor: none musty sewage i	otten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butur		

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- 1		V 16	111

Use one of the following:

A. Free Fall into container:

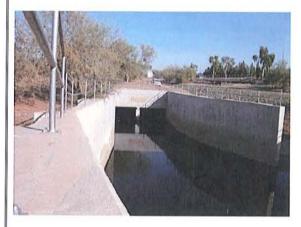
Volume: _____(gal) Time: _____(sec)

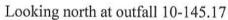
B. Channel/pipe Flow (provide sketch):

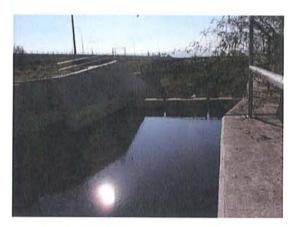
Depth:____(in) Width:____(in) Velocity:____(ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall (record roll number and exposure number)







Looking south towards the Salt River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Standing water but no flow

Structure Name: East Tunnel		
Outfall Location Code: <u>10-149.18</u>	L.U.Type Commercial/Residential	
Receiving Water: Salt River		
Access Instructions: Park at end of Univ		
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes):21' concrete tunnel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/21/2011 1125		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su	Color: # <u>Clear</u>	
Cl2:ppm	Ammonia: <u>NA</u> <u>ppm</u>	
Cu: <u>NA</u> ppm	Oil sheen: Y /N	
Phenols: NA ppm	Surface scum: Y N	
Deterg: <u>NA</u> ppm	Air Temp: <u>63</u> °F	
Turbidity: <u>NA</u> NTU	Water Temp: 61.9 °F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature:		

Additional Information

Use one of the following:

A. Free Fall into container:

Volume: NA (gal) Time: NA (sec)

B. Channel/pipe Flow (provide sketch):

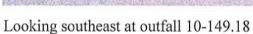
Depth: NA (in) Width: NA (in)

Velocity: _______(ft/sec)

C. Discharge estimate: <2 (gpm)

Photograph of Outfall







Looking south towards Salt River

Additional Notes

Had a trickle flow

L.U.Type Industrial
er Rd, go through ADOT gate across from Cutter Air.
ensions (see manual for codes): 36" circular pipe
normal excessive growth inhibited growth
wth, schedule additional site visit).
Color: #
Ammonia:ppm
Oil sheen: Y / N
Surface soum: Y / N
Air Temp:°F
Water Temp:°F
of Chain of Custody Record nual for example form)
other
rotten eggs solvent chlorine other

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

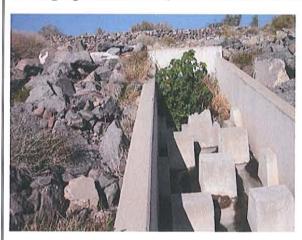
B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in)

Velocity: _____(ft/sec)

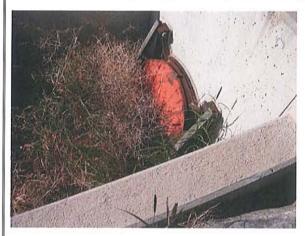
C. Discharge estimate: ____(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 10-150.44

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):



Needs cleared out so trap door opens/closes

Structure Name: Dual 72" circular pipe		
Outfall Location Code: 10-150.45 (see manual, pp FCD-1-5)		L.U.Type Industrial (see reverse)
Receiving Water: Salt River		(#9) 5 84 (AVI) 1200 F0.0 (AUS) 5 77 19 0
Access Instructions: South on Old Towe	er Rd, go through ADOT gate acros	ss from Cutter Air.
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): Dual 7	2" circular pipe
Vegetative Growth (circle one): none	normal excessive growth	inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/21/2011 1210		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface seum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine	other
Biological: none fish algae other		
Signature: John Barty		

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

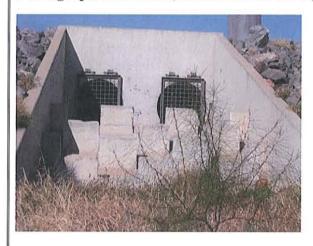
B. Channel/pipe Flow (provide sketch):

Depth:_____(in) Width:_____(in)

Velocity: (ft/sec)

C. Discharge estimate: (gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 10-150.45 along north bank of the Salt River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):



Minor repairs needed (concrete cracking)

Structure Name: 2 - 10' x 8' box culver	ts	
Outfall Location Code: 10-162.44	L.U.Type Commercial	
Receiving Water: Gila Floodway		
Access Instructions: Park in the hotel pa	arking lot and walk south to the outfall.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 2 - 10' x 8' box culverts	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/3/2012 1500		
Precipitation <96 hours? Yes /No Flow? Yes / No		
pH::6.8su	Color: Clear	
Cl2:ppm	Ammonia: ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum(Y) N	
Deterg:ppm	Air Temp: 70°F	
Turbidity:NTU	Water Temp: 67.5°F	
	of Chain of Custody Record	
(see manual for example form) Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none (sediments) oily o	ther	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other	To a control of the c	
Signature: Yolur Buter		

1 st Visit	
Use one of the following:	
A. Free Fall into container:	
Volume:(gal) Time:	_(sec)
B. Channel/pipe Flow (provide sketch):	
Depth:(in) Width:	(in)
Velocity:(ft/	(sec)
C. Discharge estimate:	(gpm)

Photograph of Outfall



Looking southeast into outfall 10-162.44

Additional Notes:

None

Structure Name: 36" circular pipe		
Outfall Location Code: 17-208.2	L.U.Type Commercial	
Receiving Water: Arizona Canal Diversion Channel Access Instructions: Park behind strip mall @ 29 th Ave and Dunlap, walk east. For discrepancies or omissions only:		
Outfall type, shape, material, and din	nensions (see manual for codes): 36" circular pipe (appears	
as rectangle at outfall point)		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	owth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/21/2011 930		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH: :su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily o	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burty		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
Looking northeast towards outfall 17-208.2
Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):
None

Structure Name: 48" circular pipe (recta	angle at outfall point)	
Outfall Location Code: 51-5.45	L.U.Type Commercial	
Receiving Water: Arizona Canal Divers	ion Channel	
Access Instructions : Park in lot at 16 th east.	Street and Glendale, walk south between two canals to	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 48" circular pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
12/21/2011 1445		
Precipitation <96 hours? Yes / No		
Flow? Yes /No		
pH: :su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface scum: Y / N	
Detergppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butus		

1 st Visit			
Use one of the following:			
A. Free Fall into container:			
Volume:(gal) Time:	(sec)		
B. Channel/pipe Flow (provide ske	tch):		
Depth:(in) Width:	(in)	·	
Velocity:	_(ft/sec)		
C. Discharge estimate:	(gpm)		
Photograph of Outfall (record roll nu	ımber and expo	osure number)	



Looking east at outfall 51-5.45 along on east wall of Arizona Central Diversion Channel

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: 86' TW x 8' D – Trap	ezoidal Channel	
Outfall Location Code: 51-10.91 (see manual, pp FCD-1-5) Receiving Water: Indian Bend Wash Access Instructions: Southwest of the intersection of Sweetwater and 36 th Street, furthest west		
tunnels under Sweetwater	intersection of Sweetwater and 30 Street, furthest west	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 86' TW x 8' D		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro-	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/14/2011 1550		
Precipitation <96 hours? Yes / No Yes / No		
pH::su_	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols: ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Butus		
-		

4	st	V	٠.	. 24
		W	16	

Use one of the following:

A. Free Fall into container:

(gal) Time: Volume:

(sec)

B. Channel/pipe Flow (provide sketch):

(in) Width: ____(in) Depth:

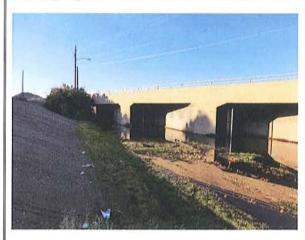
Velocity:

(ft/sec)

C. Discharge estimate:

(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking northwest at outfall 51-10.91

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Standing water present - no observable flow

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial,

commercial, agricultural, mixed, unknown

Structure Name: 1-84" round concrete,	1-10'x8" concrete box
Outfall Location Code: : 51-11.62	L.U.Type: Residential
Receiving Water: Indian Bend Wash Access Instructions: Park on 34 th Pl, we	st towards Highway 51, outfall north of Thunderbird.
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 84" circular/10'x8" box
Vegetative Growth (circle one): none	normal excessive growth inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).
Site Visit Information	
Date/Time: 12/14/2011 1520	
Precipitation <96 hours? Yes / No	
Flow? Yes / No	
pH::su	Color: #
Cl2:ppm	Ammonia:ppm
Cu:ppm	Oil sheen: Y/N
Phenols:ppm	Surface soum: Y / N
Deterg:ppm	Air Temp:°F
Turbidity:NTU	Water Temp:°F
177 A T	of Chain of Custody Record nual for example form)
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	
Deposits: none sediments oily of	other
Odor: none musty sewage	rotten eggs solvent chlorine other
Biological: none fish algae other	
Signature: John Butus	

1	st	Visit	
- 1		VISII	

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:_____(in) Width:_____(in)

Velocity: ______(ft/sec)
C. Discharge estimate: ______(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking northwest at outfall 51-11.62

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Standing water present but no flow

Structure Name: Open channel 44' wid	e x 8' deep	
Outfall Location Code: 160-187.43 L.U.Type Commercial		
Receiving Water: East Maricopa Floody		
Access Instructions: Park at Auto Park course. For discrepancies or omissions only:	Drive and Auto Loop Ave. Walk around fence on golf ensions (see manual for codes): 44'W x 8'D channel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/22/2011 1310		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: Yolu Butur		
•		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in) Velocity:(ft/sec)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
Looking east at outfall 60-187.43
Additional Notes (sketch, flow data, observations, specify visit as 1 st or 2 nd):
Name
None
Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

Structure Name: : 48' wide x 9' deep or	pen channel
Outfall Location Code: 60-189.65 Receiving Water: Sossman Channel Access Instructions: Park in lot northweend and 100' beyond	L.U.Type Residential est of Sossman and SR 60, walk east up channel to the
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): : 48'W x 9'D channel
Vegetative Growth (circle one): none	normal excessive growth inhibited growth
(If no flow but excessive or inhibited gro-	wth, schedule additional site visit).
Site Visit Information	
Date/Time: 12/22/2011 1228	
Precipitation <96 hours? Yes / No Flow? Yes / No	
pH::su	Color: #
Cl2:ppm	Ammonia:ppm
Cu:ppm	Oil sheen: Y / N
Phenols:ppm	Surface seum: Y / N
Deterg:ppm	Air Temp:°F
Turbidity:NTU	Water Temp:°F
	of Chain of Custody Record
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	nual for example form)
Deposits: none sediments oily o	ther
Odor: none musty sewage	rotten eggs solvent chlorine other
Biological: none fish algae other	
Signature: Yolu Butto	

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gal) Time:	(sec)	
B. Channel/pipe Flow (provide sket	ch):	
Depth:(in) Width:	(in)	
Velocity:	_(ft/sec)	
C. Discharge estimate:	(gpm)	



Looking southwest at outfall 60-189.65

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: Open channel with 30" overflow pipe
Outfall Location Code: 87-178.55 L.U.Type Open land
Receiving Water: Salt River
Access Instructions: Park at intersection of McDowell Rd. and SR 87, walk east to outfall
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): Open channel/30" pipe
Vegetative Growth (circle one): none normal excessive growth inhibited growth
If no flow but excessive or inhibited growth, schedule additional site visit).
Site Visit Information
Date/Time: 12/22/2011 1410
Precipitation <96 hours? Yes / No Flow? Yes / No
bH:: Color: # Clear
C12:ppm
Cu:ppm Oil sheen: Y / N
Phenols:ppm Surface scum: Y / N
Deterg:ppm Air Temp:
Turbidity:NTU Water Temp:
Attach copy of Chain of Custody Record (see manual for example form)
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)
Deposits: none sediments oily other
Odor: none musty sewage rotten eggs solvent chlorine other
Biological: none fish algae other
Signature: John Burtur

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

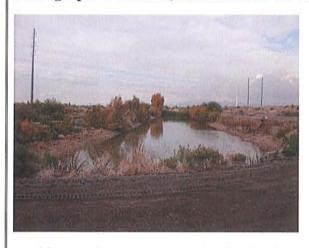
B. Channel/pipe Flow (provide sketch):

Depth: _____(in) Width: _____(in)

Velocity: (ft/sec)

C Discharge estimate: ____(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at open canal/ Outfall 87-178.55

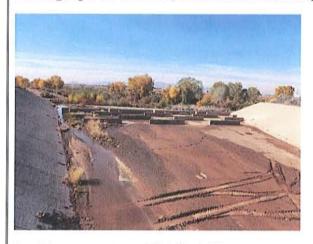
Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):



30" CMP discharges water to the Salt River when water level behind earthen dam reaches the appropriate level.

Structure Name: Open Channel	
Outfall Location Code: 101-6.05 Receiving Water: New River	L.U.Type Residential
Access Instructions: North on 107 th Avwest.	e off of Camelback, north to the end of the Road, walk
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 102" TW x 12"D
Vegetative Growth (circle one): none	normal excessive growth inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).
Site Visit Information	
Date/Time: 12/15/2011 1248	
Precipitation <96 hours? Yes / No Yes No	
pH::su	Color: #
C12:ppm	Ammonia:ppm
Cu:ppm	Oil sheen: Y / N
Phenols: ppm	Surface scum: Y / N
Deterg:ppm	Air Temp:°F
Turbidity:NTU	Water Temp:°F
77.50	of Chain of Custody Record
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	nual for example form)
Deposits: none sediments oily	other
Odor: none musty sewage	rotten eggs solvent chlorine other
Biological: none fish algae other	
Signature: John Burton	

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)



Looking west at outfall 101-6.05

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: Open channel 82' wide	e x 8' deep
Outfall Location Code: 101-7.76 L.U.Type Undevelop	
Receiving Water: New River	
Access Instructions: Park south of 99th a	and Northern, walk west.
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 82'W x 8' D open channel
Vegetative Growth (circle one): none	normal excessive growth inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).
Site Visit Information	
Date/Time: 12/15/2011 1325	
Precipitation <96 hours? Yes / No Flow? Yes / No	Very low flow.
pH:: <u>6.9</u> _su	Color: # Clear
Cl2:ppm	Ammonia:ppm
Cu:ppm	Oil sheen: Y /N
Phenols: ppm	Surface scum: Y / (N)
Deterg:ppm	Air Temp: 71°F
Turbidity:NTU	Water Temp: 64°F
	of Chain of Custody Record nual for example form)
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	
Deposits: none sediments oily o	other
Odor: none musty sewage	rotten eggs solvent chlorine other
Biological: none fish algae other	
Signature: Yolu Butur	

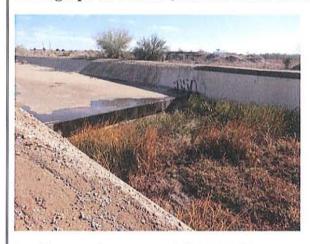
1 st Visit				
Use one of the fol	llowing:			
A. Free Fall into	container:			
Volume:	(gal) Time:	(sec)		

B. Channel/pipe Flow (provide sketch):

Depth:_____(in) Width: _____(in) Velocity: _____(ft/sec)

C. Discharge estimate: 0.5(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking southeast at outfall 101-7.76

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Flow is minor and identified as trickle

Structure Name: Open Channel, 65' W	X 12' D	
Outfall Location Code: 101-10.84	L.U.Type Undeveloped	
Receiving Water: New River		
Access Instructions: North at 95 th Ave	off of Peoria, park at the end of the road walk north	
For discrepancies or omissions only: Outfall type, shape, material, and dim	nensions: Open Channel, 65' W X 12' D	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gre	owth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/14/2011 1400		
Precipitation <96 hours? Yes / No		
Flow? Yes / No	Est. 2 gallons /minute	
pH: 7.2su	Color: # Clear	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp: 72°F	
Turbidity:NTU	Water Temp: 63°F	
	of Chain of Custody Record mual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily	other	
Odor: musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burter		

1	st y	Visit
τ	Ise	one

Use one of the following:

A. Free Fall into container:

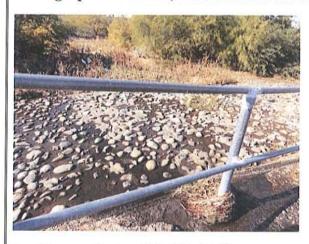
Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in) Velocity:_____(ft/sec)

C. Discharge estimate: 2(gpm)

Photograph of Outfall (record roll number and exposure number)



Looking north at outfall 101-10.84

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Flow from outfall estimated at 2 gallons /minute

Structure Name: 42" dual circular pipe	
Outfall Location Code: 101-13.44	L.U.Type Municipal
Receiving Water: Skunk Creek	
Access Instructions: Park in far east par	king lot of Rio Vista Recreation Park and walk.
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 42" dual circular pipe
Vegetative Growth (circle one): none	normal excessive growth inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).
Site Visit Information	
Date/Time: 12/19/2011 1120	
Precipitation <96 hours? Yes / No Yes / No	
pH::su	Color: #
Cl2:ppm	Ammonia:ppm
Cu:ppm	Oil sheen: Y / N
Phenols:ppm	Surface scum: Y / N
Deterg:ppm	Air Temp:°F
Tuybidity:NTU	Water Temp:°F
	of Chain of Custody Record nual for example form)
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	
Deposits: none sediments oily of	other
Odor: none musty sewage	rotten eggs solvent chlorine other
Biological: none fish algae other	
Signature: John Butus	

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch): Depth:(in) Width:(in) Velocity:(ft/sec) C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
Looking south at outfall 101-13.44
Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):
None

Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

Land Use (L.U.) Type:

Structure Name: Open channel 45' W x 5' D Outfall Location Code: 101-11.85 L.U.Type Commercial Receiving Water: New River Access Instructions: South on 88th Ave off of Thunderbird walk south to outfall on trail For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): Open channel 45' W x 5' D Vegetative Growth (circle one): none normal excessive growth inhibited growth (If no flow but excessive or inhibited growth, schedule additional site visit). Site Visit Information Date/Time: 1/10/2012 1040 Precipitation <96 hours? Yes /No Yes No Flow? pH: N/A su Color: # N/A Cl2: N/A ppm Ammonia: N/A ppm Cu: N/A ppm Oil sheen: N/A Phenois: N/A ppm Surface scum: N/A Deterg: N/A ppm Air Temp: N/A °F Water Temp: N/A °F Turbidity: N/A NTU Attach copy of Chain of Custody Record (see manual for example form) Physical Observations (1st Visit): (circle appropriate descriptors, for "other" write in description) Deposits: none sediments oily other Odor: (none) musty sewage rotten eggs solvent chlorine other Biological: (none fish algae other Signature: Yolin Butur

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gal) Time:	(sec)	
B. Channel/pipe Flow (provide	sketch):	
Depth:(in) Width	:(in)	
Velocity:	(ft/sec)	
C. Discharge estimate:	(gpm)	

Photograph of Outfall



Outfall 101-11.85 with debris present

Additional Notes

None

Structure Name: 22'W x 4'D Open Cha	nnel	
Outfall Location Code: 101-13.68 L.U.Type Commer		
Receiving Water: Skunk Creek		
Access Instructions: Park in lot northeas	st of 101 and Skunk Creek.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 22'W x 4'D Open Channel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1150		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: Yolin Burtun		

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Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in)

Velocity: ______(ft/sec)
C. Discharge estimate: ______(gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-13.68 - looking north at outfall on north bank of Skunk Creek

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):



Debris at base of outfall (looking south from outfall)

Structure Name: 28'W x 10D Open Cha	annel	
Outfall Location Code: 101-14.38 L.U.Type Comme		
Receiving Water: New River		
Access Instructions: Park in parking lot	west side of New River, south of Bell Rd.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 28'W x 10D Open Channel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1225		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: Yolu Buta		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
Outfall 101-14.38 - Looking southwest into New River
Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):
None

Structure Name: 48" circular pipe		
Outfall Location Code: 101-15.18	L.U.Type undeveloped	
Receiving Water: New River		
Access Instructions: Park on street at 83	rd Drive, walk north through runoff channel.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 48" circular pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited grow	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/11 1305		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su	Color: #	
C12:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface seum: Y / N	
Deterg: ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: one musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Butur		

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume: (gal) Time: (sec)		
B. Channel/pipe Flow (provide sketch):		
Depth:(in) Width:(in)		
Veløcity:(ft/sec)		
C. Discharge estimate:(gpm)		
Photograph of Outfall (record roll number and exposure number)		



Looking east into outfall 101-15.18 east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: 48" circular pipe		
Outfall Location Code: 101-16.31	L.U.Type Residential	
Receiving Water: New River		
Access Instructions: Park at 81st Ave a outfall.	and W Marco Polo, walk east to river bed then south to	
For discrepancies or omissions only: Outfall type, shape, material, and dim	ensions (see manual for codes): 48" circular pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1400		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg: ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burling		

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gal) Time:	(sec)	
B. Channel/pipe Flow (provide ske	tch):	
Depth:(in) Width:	(in)	
Velocity:	_(ft/sec)	
C. Discharge estimate:	(gpm)	

Photograph of Outfall (record roll number and exposure number)



Outfall 101-16.31 - Looking east into east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

NONE

Indicate dominant watershed land use as residential, industrial, Land Use (L.U.) Type: commercial, agricultural, mixed, unknown

Structure Name: 48" Circular Pipe		
Outfall Location Code: 101-16.62	L.U.Type Residential	
Receiving Water: New River		
Access Instructions: Park at 81 st Ave at River.	nd Marco Polo walk east to outfall on east bank of New	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 48" Circular Pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1450		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none (sediments) oily other		
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butter		

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gal) Time:(sec)		
B. Channel/pipe Flow (provide sketch):		
Depth:(in) Width:(in)		
Velocity:(ft/sec)		
C. Discharge estimate:(gpm)		
Photograph of Outfall (record roll number and exposure number)		

Outfall 101-16.62 - Looking east into east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Sediment building up in outfall

Structure Name: 56'W x 11'D Open Channel		
Outfall Location Code: 101-16.74 L.U.Type Reside		
Receiving Water: New River		
Access Instructions: Park at 81 st Ave at River.	nd Marco Polo walk east to outfall on east bank of New	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions: 56'W x 11'D Open Channel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1430		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Buty		

1 st Visit	
Use one of the following:	
A. Free Fall into container:	
Volume:(gal) Time:	(sec)
B. Channel/pipe Flow (provide ske	tch):
Depth:(in) Width:	(in)
Velocity:	_(ft/sec)
C. Discharge estimate:	(gpm)
Photograph of Outfall (record roll number and exposure number) Outfall 101-16.74 - Looking southeast towards east bank of New River	
Outrall 101-16.74 - Looking souther	ist towards east bank of New River

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Indicate dominant watershed land use as residential, industrial, Land Use (L.U.) Type: commercial, agricultural, mixed, unknown

Structure Name: 36" Circular Pipe		
Outfall Location Code: 101-20.19	L.U.Type Residential	
Receiving Water: Skunk Creek		
Access Instructions: Park at 51st Ave an	nd Kerry Lane, walk north up 51st Ave	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/19/2011 1520		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burton		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)



Outfall 101-20.19 - Looking North towards River Bank

Additional Notes (sketch, flow data, observations, specify visit as 1^{st} or 2^{nd}):

None

Outfall Location Code: 101-21.23A	L.U.Type Residential and undeveloped	
Receiving Water: Skunk Creek		
Access Instructions: North side of 101, park on	east side of Skunk Creek	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions	(see manual for codes): 20'W x 2'D Open Channel	
Vegetative Growth (circle one): none (norr	nal excessive growth inhibited growth	
(If no flow but excessive or inhibited growth, sc	hedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2011 1020		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su Color:	#	
Cl2:ppm Ammo	onia:ppm	
Cu:ppm Oil sh	een: Y / N	
Phenols:ppm Surfac	escum: Y / N	
Deterg: ppm Air Ye	mp:°F	
Turbidity:NTU Water	Temp:°F	
Attach copy of Chair (see manual for		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Burlin		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
Outfall 101-21.23A – entering Skunk Creek
Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):
None

Structure Name: 42" Circular Pipe		
Outfall Location Code: 101-21.23B L.U.Type Residential and undevelop		
Receiving Water: Skunk Creek		
Access Instructions: North side of 101 on Beardsley Rd, west from 35 th Ave. For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 42" Circular Pipe		
Vegetative Growth (circle one): (none)	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro		
Site Visit Information		
Date/Time: 12/20/2011 1040		
Precipitation <96 hours? Yes / No Flow? Yes No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butur		

1st Visit			
Use one	of the following	: ,	
A. Free	Fall into contain	er:	
Volu	ume:(gal) Time:	(sec)
B. Cha	nnel/pipe Flow (p	orovide sketo	ch):
Dep	th:(in)	Width:	(in)
Velo	peity:		(ft/sec)
C. Disc	harge estimate: _		(gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.23B - Looking at outfall on east side of underpass.

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: 96" Circular Pipe		
Outfall Location Code: 101-21.83	L.U.Type Residential	
Receiving Water: Scatter Wash		
Access Instructions: Eastside of Scatter	Wash, south of 101 and $\frac{1}{2}$ mile west of 35^{th} Ave.	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 96" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2012 1120		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface seum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butu		

1 st	Visit
Us	se one of the following:
A.	Free Fall into container:
	Volume:(gat) Time:(sec)
В.	Channel/pipe Flow (provide sketch):
	Depth:(in) Width:(in)
	Velocity: (ft/sec)

(gpm)

Photograph of Outfall (record roll number and exposure number)



C. Discharge estimate:

Outfall 101-21.83 - Along east bank of Scatter Wash

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

None

Structure Name: 32'W x 8'D Open Cha	annel	
Outfall Location Code: 101-21.87A	L.U.Type Residential	
Receiving Water: Scatter Wash		
Access Instructions: North of 101 on Be	eardsley ½ way between 35 th and 43 rd Ave.	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 32'W x 8'D Open Channel		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2011 0920		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface soum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbicity:NTU	Water Temp:°F	
	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Butur		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C. Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.87A - Looking east towards outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Miscellaneous debris in Scatter Wash

Structure Name: 32" Circular Pipe		
Outfall Location Code: 101-20.87B L.U.Type Commerce		
Receiving Water: Scatter Wash		
Access Instructions: of 101 on Beardsle	ey ½ way between 35 th and 43 rd A	ve.
For discrepancies or omissions only: Outfall type, shape, material, and dim	ensions (see manual for codes): 32" (Circular Pipe
Vegetative Growth (circle one): none	normal excessive growth	inhibited growth
(If no flow but excessive or inhibited gro	wth, schedule additional site visit	t).
Site Visit Information		
Date/Time: 12/20/2011 0940		
Precipitation <96 hours? Yes / No Yes / No		
pH: N/A su	Color: # N/A	
Cl2: N/A ppm	Ammonia: N/A ppm	
Cu: N/A ppm	Oil sheen: N/A	
Phenols: N/A ppm	Surface scum: N/A	
Deterg: N/A ppm	Air Temp: N/A °F	
Turbidity: N/A NTU	Water Temp: N/A °F	
7.7	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine	other
Biological: none fish algae other		
Signature: Yoln Butur		

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A. Free Fall into container:

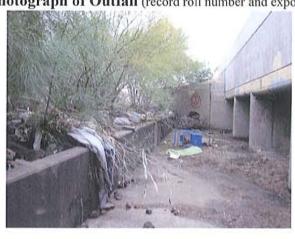
Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth: ____(in) Width: ____(in)

Velocity: ______(ft/sec)
C. Discharge estimate: _____(gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-21.87B - Looking east at outfall on east bank of Scatter Wash

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Excess debris at outfall

L.U.Type Commercial
(south side of 101) east bank of Cave Creek Park in
ensions (see manual for codes): 2- 6'x6' Box culvert
normal excessive growth inhibited growth
wth, schedule additional site visit).
Color: #
Ammonia:ppm
Oil sheen: Y / N
Surface scum: Y / N
Air Temp:°F
Water Temp:°F
of Chain of Custody Record nual for example form)
ther
rotten eggs solvent chlorine other

a SI	W.T.	
7.5	V	isit

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:_____(in)

Velocity: _____(ft/sec)

C. Discharge estimate: _____(gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 101-25.92 - Looking east into the outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Heavy tagging of outfall

Structure Name: 2 - 10' x 10' box culve	erts	
Outfall Location Code: 101-50.87 L.U.Type Agric		
Receiving Water: Salt River		
Access Instructions: Take McDowell canal.	exit north off of 101, drive south on east side of open	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 2 - 10' x 10' box culverts	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/3/2012 1330		
Precipitation <96 hours? Yes /No		
Flow? Yes /No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: (none) fish algae other		
Signature: John Bouton		

1 st Visit	
Use one of the following:	
A. Free Fall into container:	
Volume:(gal) Time:	(sec)
B. Channel/pipe Flow (provide sketch	1):
Depth:(in) Width:	(in)
Velocity:(f	ft/sec)
C. Discharge estimate:	_(gpm)
Photograph of Outfall	



Outfall 101-50.87 - Looking northeast toward outfall

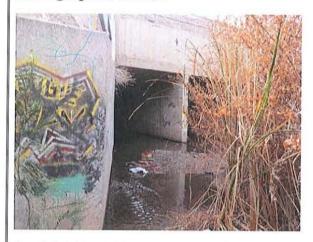
Additional Notes:

None

Structure Name: 3 - 12' x 12' box culve	rts (Price Drain)	
Outfall Location Code: 101-51.07	L.U.Type Mixed Use	
Receiving Water: Salt River		
Access Instructions: Park on the north s	ide of 101 and Dobson (gate), walk in to outfall to west	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 3 - 12' x 12' box culverts	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited grow	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/3/2012 1240		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::7.1su	Color: # Clear	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y/N	
Deterg:ppm	Air Temp: 68°F	
Turbidity:NTU	Water Temp: 69.5°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily o	ther	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: Yolu Butur		

1 st	Visit	
Us	se one of the following:	
A.	Free Fall into container:	
	Volume:(gal) Time:	(sec)
В.	Channel/pipe Flow (provide s	ketch):
	Depth:(in) Width:	(in)
	Velocity:	(ft/sec)
C.	Discharge estimate:	(gpm)

Photograph of Outfall



Outfall 101-51.07 - Looking southwest

Additional Notes:

None

Structure Name: 66" Circular Pipe			
Outfall Location Code: 143-2.90 L.U.Type Residential			
Receiving Water: Old Cross Cut Canal			
Access Instructions: North of Van Burcanal.	en just east of the 143, go south along west side of the		
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 66" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth		
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).		
Site Visit Information			
Date/Time: 1/5/2012 1242			
Precipitation <96 hours? Yes /No Yes /No			
pH::su	Color: #		
Cl2:ppm	Ammonia:ppm		
Cu:ppm	Oil sheen: Y / N		
Phenols:ppm	Surface scum: Y / N		
Deterg:ppm	Air Temp:°F		
Turbidity:NTU	Water Temp:°F		
Attach copy of Chain of Custody Record (see manual for example form)			
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)			
Deposits: none sediments oily of	other		
Odor: none musty sewage	rotten eggs solvent chlorine other		
Biological: none fish algae other			
Signature: John Burter			

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A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in)

Velocity: _____(ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall



Outfall 143-2.90 - Looking southwest into canal

Additional Notes:

NONE

Structure Name: 72" Circular Pipe		
Outfall Location Code: 153-1.64 L.U.Type Commercial		
Receiving Water: Salt River		
Access Instructions : North on 47 th Place intersection of E. Hilton Ave and S 47th	off of University. Take dirt road on right at Place.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 72" Circular Pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/5/2012 1000		
Precipitation <96 hours? Yes No Yes No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Buttu		

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A. Free Fall into container:

Volume: _____(gal) Time: _____(sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:____(in)

Velocity: _____(ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall



Outfall 153-1.64 - Looking south into outfall

Additional Notes:

None

Structure Name: 2 - 3' X 4' Box Culver	rt	
Outfall Location Code: 202-3.57	L.U.Type Municipal	
Receiving Water: Old Cross Cut Canal		
Access Instructions: North of Van Burcanal.	en just east of the 143, go north along west side of the	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 2 - 3' X 4' Box Culvert	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/5/2012 1130		
Precipitation <96 hours? Yes No		
Flow? Yes (No)	The state of the s	
pH: :su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Tupbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burton		

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A. Free Fall into container:

Volume: _____(gal) Time: _____(sec)

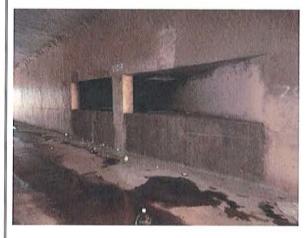
B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:_____(in)

Velocity: _____(ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall



Outfall 202-3.57 - Looking northeast into outfall under 202

Additional Notes:

None

Structure Name: 60'W X 5'D Open Cha	annel	
Outfall Location Code: 202-5.14	L.U.Type Municipal	
Receiving Water: Salt River		
Access Instructions: Go east on acce Washington. Can't access the canal direc	ess road on south side of canal on 48 th St south of the tly do to its location on Light Rail Yard.	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 60'W X 5'D Open Channel	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/5/2012 1239		
Precipitation <96 hours? Yes /No Yes /No	Unable to reach outfall.	
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y/N	
Phenols:ppm	Surface scum: Y / N	
Deterg: ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): <u>Unab</u> (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Burton		

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1 30	Visit

A. Free Fall into container:

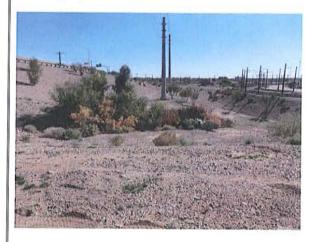
Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth: ____(in) Width: ____(in)

Velocity: _______(ft/sec)
C. Discharge estimate: ______(gpm)

Photograph of Outfall



Outfall 202-5.14 - Looking south towards open channel

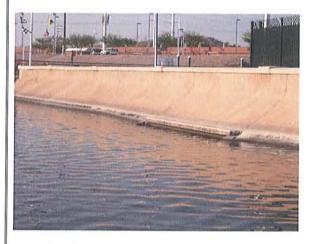
Additional Notes:

None

Structure Name: 48" Circular Pipe		
Outfall Location Code: 202-7.44 L.U.Type F		
Receiving Water: Salt River		
Access Instructions: Park on east side o	f marina walk to north bank 20' east of marina inlet.	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2011 1455		
Precipitation <96 hours? Yes / No Flow? Yes No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Burter		

18	Visit
U	e one of the following:
A.	Free Fall into container:
	Volume:(gal) Time:(sec)
В.	Channel/pipe Flow (provide sketch):
	Depth:(in) Width:(in)
	Velocity:(ft/sec)
C	Discharge estimate: (gnm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-7.44 - Looking to the northwest towards the north bank of Tempe Town Lake (outfall is underwater)

Additional Notes (sketch, flow data, observations, specify visit as 1^{st} or 2^{nd}):

Structure Name: 2 - 8' X 8' Box Culver	rts	
Outfall Location Code: 202-7.98	L.U.Type Park	
Receiving Water: Salt River		
Access Instructions: Park at park on the	e north side of Tempe Town Lake	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 2 - 8' X 8' Box Culverts	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2011 1410		
Precipitation <96 hours? Yes / No Flow? Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Burty		

1 st Visit
Use one of the following:
A. Free Fall into container:
Volume:(gal) Time:(sec)
B. Channel/pipe Flow (provide sketch):
Depth:(in) Width:(in)
Velocity:(ft/sec)
C Discharge estimate:(gpm)
Photograph of Outfall (record roll number and exposure number)
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Outfall 202-7.98 - Looking west on north shore of Tempe Town Lake (outfall partially underwater)

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Outfall partially underwater

Structure Name: 48" Circular Pipe		
Outfall Location Code: 202-8.28	L.U.Type Mixed Use	
Receiving Water: Salt River		
Access Instructions: Walk from the nort	th side of Tempe Town Lake to outfall	
For discrepancies or omissions only: Outfall type, shape, material, and dime	ensions (see manual for codes): 48" Circular Pipe	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/20/2012 1320		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
C12:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface seum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage	rotten eggs solvent chlorine other	
Biological: none fish algae other		
Signature: John Buty		

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gał) Time:	(sec)	
B. Channel/pipe Flow (provide ske	etch):	
Depth:(in) Width:	(in)	
Velocity:	_(ft/sec)	
C. Discharge estimate:	(gpm)	

Photograph of Outfall (record roll number and exposure number)



Outfall 202-8.28 - Looking east towards outfall under 202 overpass

Additional Notes (sketch, flow data, observations, specify visit as 1^{st} or 2^{nd}):

None

Structure Name: 36" Circular Pipe			
Outfall Location Code: 202-8.65 (see manual, pp FCD-1-5) L.U.Type Park (see reverse)			
Receiving Water: Salt River			
Access Instructions: Park on North sid	e of Tempe Town Lake.		
For discrepancies or omissions only: Outfall type, shape, material, and din	mensions (see manual for codes): 36" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth		
(If no flow but excessive or inhibited gr	owth, schedule additional site visit).		
Site Visit Information			
Date/Time: 12/20/2011 1340			
Precipitation <96 hours? Yes / No Yes / No			
pH::su	Color: #		
Cl2:ppm	Ammonia:ppm		
Cu:ppm	Oil sheen: Y / N		
Phenols:ppm	Surface scum: Y / N		
Deterg:ppm	Air Temp:°F		
Turbidity:NTU	Water Temp:°F		
Attach copy of Chain of Custody Record (see manual for example form)			
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)			
Deposits: none sediments oily other			
Odor: none musty sewage rotten eggs solvent chlorine other			
Biological: none fish algae other			
Signature: John Buter			

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A. Free Fall into container:

Volume: _____(gal) Time: _____(sec)

B. Channel/pipe Flow (provide sketch):

Depth:_____(in) Width:_____(in)

Velocity. (ft/sec)

C. Discharge estimate: _____(gpm)

Photograph of Outfall (record roll number and exposure number)



Outfall 202-8.65 - Looking south into Tempe Town Lake

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Outfall partially under water

Structure Name: 43'W x 11'D Open Channel		
Outfall Location Code: 202-14.22	L.U.Type Residential and open land	
Receiving Water: Salt River		
Access Instructions: Mesa Dr. and McDowell Rd. Through ADOT Gate to the west, follow channel west to outfall.		
For discrepancies or omissions only: Outfall type, shape, material, and dimensions 43'W x 11'D Open Channel		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 12/22/2011 1345		
Precipitation <96 hours? Yes / No Yes / No		
pH::su	Color: #	
Cl2:ppm	Ammonia:ppm	
Cu:ppm	Oil sheen: X / N	
Phenols:ppm	Surface scum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily of	other	
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: Yolu Butto		

1 st Visit		
Use one of the following:		
A. Free Fall into container:		
Volume:(gal) Time: _	(sec)	
B. Channel/pipe Flow (provide sk	tetch):	
Depth:(in) Width:_	(in)	
Velocity:	(ft/sec)	
C. Discharge estimate:	(gpm)	

Photograph of Outfall (record roll number and exposure number)



Outfall 202-14.22 - Looking north into outfall

Additional Notes (sketch, flow data, observations, specify visit as 1st or 2nd):

Outfall Location Code: 10-151.06 Receiving Water: Tempe Drain Access Instructions: Park in lot to the northwest of I-10 and University		
Receiving Water: Tempe Drain		
Access Instructions: Park in lot to the northwest of I-10 and University		
100 200		
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 66" Circular Pipe		
Vegetative Growth (circle one): none normal excessive growth inhibited growth		
(If no flow but excessive or inhibited growth, schedule additional site visit).		
Site Visit Information		
Date/Time: 1/10/2012 1345		
Precipitation <96 hours? Yes No Flow? Yes No		
pH: N/A su Color: # N/A		
Cl2: N/A ppm Ammonia: N/A ppm		
Cu: N/A ppm Oil sheen: N/A		
Phenols: N/A ppm Surface scum: N/A		
Deterg: N/A ppm Air Temp: N/A °F		
Turbidity: N/A NTU Water Temp: N/A °F		
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Builty		

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A. Free Fall into container:

Volume: _____(gal) Time: _____(sec)

B. Channel/pipe Flow (provide sketch):

Depth:_____(in) Width: _____(in) Velocity: _____(ft/sec)

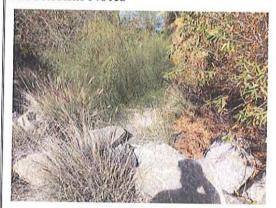
C. Discharge estimate: _____(gpm)

Photograph of Outfall



Outfall 10-150.06 - Looking southwest

Additional Notes



Heavy over growth around outfall

Structure Name: 102" Circular Pipe Outfall Location Code: 17-198.48 L.U.Type Commercial Receiving Water: Salt River Access Instructions: 27th Ave South into Landfill, east 200' past the scale through gate. For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 102" Circular Pipe Vegetative Growth (circle one): none normal excessive growth inhibited growth (If no flow but excessive or inhibited growth, schedule additional site visit). Site Visit Information Date/Time: 1/7/2012 1100 Precipitation <96 hours? Yes No Yes No Flow? pH: N/A su Color: # N/A Cl2: N/A ppm Ammonia: N/A ppm Cu: N/A ppm Oil sheen: N/A Phenols: N/A ppm Surface scum: N/A Deterg: N/A ppm Air Temp: N/A °F Turbidity: N/A NTU Water Temp: N/A °F Attach copy of Chain of Custody Record (see manual for example form) Physical Observations (1st Visit): (circle appropriate descriptors, for "other" write in description) Deposits: none sediments oily other Odor: (none) musty rotten eggs solvent sewage chlorine other Biological: (none) fish algae other Signature:

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A. Free Fall into container:

Volume: (gal) Time: (sec)

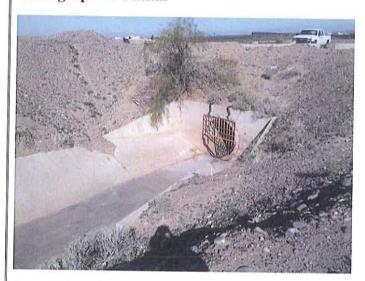
B. Channel/pipe Flow (provide sketch):

Depth: _____(in) Width: _____(in)

Velocity: (ft/sec)

C. Discharge estimate: (gpm)

Photograph of Outfall



Outfall 17-198.48 - Looking north at the outfall

Additional Notes

None

Structure Name: 48" Circular Pipe		
Outfall Location Code: 51-7.04	L.U.Type Commercial	
Receiving Water: Dreamy Draw Wash		
Access Instructions: North on Highwa before the stop light and walk east aroun	y 51, exit on Northern, pull over on east side of ramp d fence.	
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 48" Circular Pipe		
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/10/2012 1435		
Precipitation <96 hours? Yes /No		
Flow? Yes No		
pH: N/A su	Color: # N/A	
Cl2: N/A ppm	Ammonia: N/A ppm	
Cu: N/A ppm	Oil sheen: N/A	
Phenols: N/A ppm	Surface scum: N/A	
Deterg: N/A ppm	Air Temp: N/A °F	
Tyrbidity: N/A NTU	Water Temp: N/A °F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: Yolin Burley		

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth: _____(in) Width: _____(in) Velocity: ______(ft/sec)

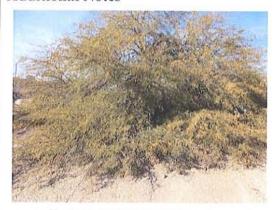
C. Discharge estimate: ____(gpm)

Photograph of Outfall



Outfall 51-7.04 - Looking north into the outfall

Additional Notes



Tree covering outfall

Structure Name: 10' x 6' Box Culvert		
Outfall Location Code: 51-8.22 L.U.Type Commercial		
Receiving Water: Dreamy Draw Wash		
Access Instructions: Park at 29th St and	E Malapai Drive. Take hikers trail to outfall	
For discrepancies or omissions only:	ensions (see manual for codes): 10' x 6' Box Culvert	
Vegetative Growth (circle one): none	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	owth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/10/2012 1515		
Precipitation <96 hours? Yes / No Yes / No		
pH: N/A su	Color: # N/A	
Cl2: N/A ppm	Ammonia: N/A ppm	
Cu: N/A ppm	Oil sheen: N/A	
Phenols: N/A ppm	Surface scum: N/A	
Deterg: N/A ppm	Air Temp: N/A °F	
Turbidity: N/A NTU	Water Temp: N/A °F	
	of Chain of Custody Record nual for example form)	
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)	F	
Deposits: none sediments oily o	other	
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Burty		

1st Visit

Use one of the following:

A. Free Fall into container:

Volume: _____(gal) Time: _____(sec)

B. Channel/pipe Flow (provide sketch):

Depth: ____(in) Width: ____(in)

Velocity: ______(ft/sec)

C. Discharge estimate: ____(gpm)

Photograph of Outfall



Outfall 51-8.22 - Looking north at outfall

Additional Notes



Tagging on walls



Broken grate/lock

Structure Name: 36" Circular Pipe		
Outfall Location Code: 202-5.90	L.U.Type Mixed	
Receiving Water: Salt River		
Access Instructions: South on Lake View Dr. off of E Curry Rd. Park on North side of lake and walk west to outfall.		
For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe		
Vegetative Growth (circle one):	normal excessive growth inhibited growth	
(If no flow but excessive or inhibited gro	wth, schedule additional site visit).	
Site Visit Information		
Date/Time: 1/5/2012 1320		
Precipitation <96 hours? Yes No Flow? Yes No		
pH::su	Color: #	
Cl2:ppm	Ammonia: ppm	
Cu:ppm	Oil sheen: Y / N	
Phenols:ppm	Surface soum: Y / N	
Deterg:ppm	Air Temp:°F	
Turbidity:NTU	Water Temp:°F	
Attach copy of Chain of Custody Record (see manual for example form)		
Physical Observations (1 st Visit): (circle appropriate descriptors, for "other" write in description)		
Deposits: none sediments oily other		
Odor: none musty sewage rotten eggs solvent chlorine other		
Biological: none fish algae other		
Signature: John Burton		

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Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth:____(in) Width:_____(in)

Velocity: (ft/sec)

C. Discharge estimate: _____(gpm)

Photograph of Outfall





Outfall 202-5.90 - Looking north into the outfall

Looking south from outfall into Salt River

Additional Notes:

None

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

SITE REPORT DRY WEATHER/ILLICIT DISCHARGE FIELD SCREEN

Structure Name: 36" Circular Pipe Outfall Location Code: 60-159.51 L.U.Type Commercial Receiving Water: Grand Canal Access Instructions: Park in lot south of Grand Canal and walk on the south side of the canal outfall under Grand Ave. For discrepancies or omissions only: Outfall type, shape, material, and dimensions (see manual for codes): 36" Circular Pipe Vegetative Growth (circle one): none normal excessive growth inhibited growth (If no flow but excessive or inhibited growth, schedule additional site visit). Site Visit Information Date/Time: 1/10/2012 1205 Precipitation <96 hours? Yes (No) Flow? Yes (No) pH: N/A su Color: # N/A Cl2: N/A ppm Ammonia: N/A ppm Cu: N/A ppm Oil sheen: N/A Phenols: N/A ppm Surface scum: N/A Deterg: N/A ppm Air Temp: N/A °F Turbidity: N/A NTU Water Temp: N/A °F Attach copy of Chain of Custody Record (see manual for example form) Physical Observations (1st Visit): (circle appropriate descriptors, for "other" write in description) Deposits: none sediments oily other Odor: none musty sewage rotten eggs solvent chlorine other Biological: none (fish) algae other Signature:

1	st	Visit
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Use one of the following:

A. Free Fall into container:

Volume: (gal) Time: (sec)

B. Channel/pipe Flow (provide sketch):

Depth: ____(in) Width: ____(in) Velocity: _____(ft/sec)

C. Discharge estimate: (gpm)

Photograph of Outfall



Outfall under overpass.

Additional Notes

Grand Canal had water present

Land Use (L.U.) Type: Indicate dominant watershed land use as residential, industrial, commercial, agricultural, mixed, unknown

APPENDIX C Notice of Illegal Discharge Letters



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

John H. Nichols Division Director

John S. Halikowski Director November 17, 2011

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Doug Rozelle, Globe Area Sales Manager Fred Nackard Wholesale Beverage Co. 1800 E. Highway 60 Globe, Arizona 85501

Dear Mr. Rozelle:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge/connection without permission is an illegal encroachment on ADOT right of way.

On September 29, 2011 a letter was sent to you from Roderick Lane, the ADOT Globe District Engineer regarding a discharge pipe originating from your property located along US 60. The letter requested that either the proper permit be obtained from the ADOT Globe District or the pipe must cease discharging into the ADOT right-of-way.

A recent inspection of the area showed that the pipe has not been removed. This connection must be removed within **30 days**. A follow-up investigation will be conducted after that time to ensure compliance. If the situation is not corrected, ADOT will take corrective measures, including but not limited to sending this matter to the Arizona Office of the Attorney General. In the alternative, ADOT may remove the connection and bill you directly pursuant to A.R.S. § 28-7053.

If the illegal connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal connection exists at your property, please contact me with further details or explanation by calling 602.712.8353 or by email at <a href="wtw-right-uter-state-st

Sincerely,

cc:

Wendy Terlizzi

ADOT Office of Environmental Services Water Quality Manager

1611 W Jackson Street, MD EM04

ender leiting

Phoenix, Arizona 85383

Todd G. Williams, M.Sc, ADOT Office of Environmental Services Director

Roderick Lane, ADOT Globe District Engineer

Kevin Boesch, ADOT Globe District Environmental Coordinator



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

John H. Nichols Division Director

John S. Halikowski

January 19, 2012

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Alexander's Body Shop 3777 Northwest Grand Avenue Phoenix, Arizona. 85019

Dear Sir/Madam:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge/connection without permission is an illegal encroachment on ADOT right of way.

An inspection of the drainage system has occurred in the vicinity of your property and an illegal discharge was discovered entering into the ADOT system. The discharge/connection was discovered on December 29, 2011 at the address listed above.

Indicators include the presence of grayish color water. Photographs of this discharge/connection are enclosed with this letter.

This discharge must be ceased or removed within 30 days. A follow-up investigation will be conducted after that time to ensure compliance. If the situation is not corrected, ADOT will take corrective measures, including but not limited to sending this matter to the Arizona Office of the Attorney General so that a lawsuit may be filed. In the alternative, ADOT may remove the discharge/connection and bill you directly pursuant to A.R.S. § 28-7053.

If the illegal discharge/connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal discharge/connection exists at your property, please contact me with further details or explanation by calling 602.712.8353 or by email at wterlizzi@azdot.gov. Si desea esta correspondencia en español por favor comuníquese con Lourdes Lerma al 602-712-8989.

Sincerely,

Wendy Terlizzí

ADOT Office of Environmental Services Water Quality Manager

1611 W Jackson Street, MD EM04

Phoenix, Arizona 85383

cc:

Todd G. Williams, M.Sc, ADOT Office of Environmental Services Director

Tim Wolfe, ADOT Phoenix Maintenance District Engineer

Lisa Andersen, ADOT Phoenix Maintenance District Environmental Coordinator



Arizona Department of Transportation

Administrative Services Division

206 South Seventeenth Avenue Phoenix, Arizona 85007-3213

John H. Nichols Division Director

John S. Halikowski
Director

January 19, 2012

NOTICE OF ILLEGAL DISCHARGE OR CONNECTION

Rodriguez Auto Body Y Mecanica en General 6516 Northwest Grand Avenue Glendale, Arizona. 85301

Dear Sir/Madam:

The Arizona Department of Transportation (ADOT) is responsible for maintaining not only roadways, but also the extensive storm drain network located within the State rights-of-way. The Arizona Pollutant Discharge Elimination System (AZPDES) Program, which is a component of the Clean Water Act of 1972, requires ADOT to control the amount of pollutants entering the drainage system. Part of this charge is the detection and elimination of illegal discharges or connections to the system that may contain pollutants or are otherwise not allowed. Left uncorrected, any pollutants entering the system will ultimately impact nearby streams, as storm drainage is not treated at any sort of treatment facility. In addition, neighboring property owners are not allowed to occupy, use or interfere with public right of way without permission. Any discharge/connection without permission is an illegal encroachment on ADOT right of way.

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If the illegal discharge/connection cannot be removed within 30 days, you do not understand this notice, or you disagree that an illegal discharge/connection exists at your property, please contact me with further details or explanation by calling 602.712.8353 or by email at wterlizzi@azdot.gov. Si desea esta correspondencia en español por favor comuníquese con Lourdes Lerma al 602-712-8989.

Sincerely,

Wendy Tellizzi
Wendy Terlizzi

ADOT Office of Environmental Services Water Quality Manager

1611 W Jackson Street, MD EM04

Phoenix, Arizona 85383

cc: Todd G. Williams, M.Sc, ADOT Office of Environmental Services Director

Tim Wolfe, ADOT Phoenix Maintenance District Engineer

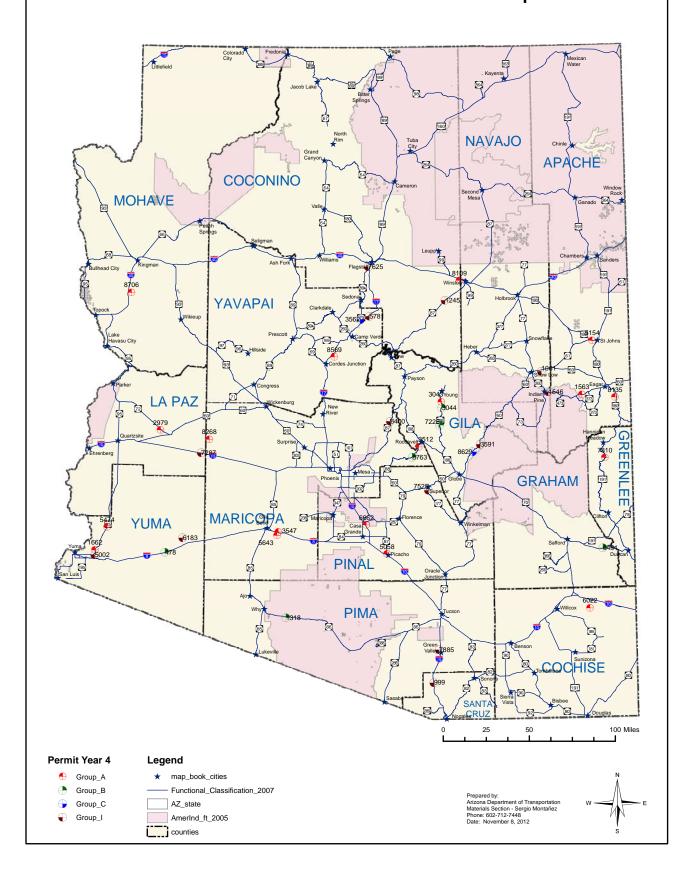
Lisa Andersen, ADOT Phoenix Maintenance District Environmental Coordinator

APPENDIX D Example Spill Report Form

SPILL REPORT	TING FORM
Provide to: Yard Supervisor Lee Rutt	-
1. SITE NAME AND ADDRESS: PV Mumfenance Yand 6989 E. 21	nd St. Prescott Valley Az 86314
2. NAME OF PERSON DISCOVERING/REPORTING SPILL: Ruy (humer & Gordon Douglas to	3. DATE AND TIME INCIDENT DISCOVERED: 12/19/11 3:30 PM
4. Briefly Describe incident, including Type of Material Over flow of MgCl de-icer from fill line Fill line not placed into containment area. I	SPILLED AND EQUIPMENT/FACILITIES INVOLVED: Approx 4000 gallon released from tank. Material travelled through yard to detention busin
(#28 on site map), No material left site. 5. CAUSE / SOURCE OF SPILL: Fill hose Cat off valve not timed off and Fill house left in 59 gal Crum ontside con	6. DURATION OF SPILL: 1/2 hours t.
7. SPILL WAS RELEASED TO: WATER/WATERWAYS (DESCRIBE) SEWER OIL WATER SEPARATOR CONCRETE/ASPHALT STORM DRAIN SOIL OTHER (SPECIFY) DRY WELL ON-Site detentan Nothing left site	8. AMOUNT SPILLED (GALLONS): 9. WAS FIRE DEPARTMENT NOTIFIED? YES NO N/A NAMES:
10. Assistance Required from Contractor? \[\overline{\chi} \] No \[\square \text{Yes (who & Explain):} \]	11. NAME AND ADDRESS OF DISPOSAL CONTRACTOR USED None required
12. DISTANCE SPILL MATERIAL TRAVELED: 200 yards	13. Off-Site Property Affected? X No Yes (Explain)
14. PERSONAL PROTECTIVE EQUIPMENT AND/OR SPILL EQUIPMENT/MATERIALS USED? **\bar{\mathbb{L}}\) NO \(\Boxed{\text{ YES (EXPLAIN)}}	15. Any Injuries?: No Yes (Explain)?
16. ACTION BEING TAKEN? Bermplaced behind east side of building 22	17. Additional Information (If Necessary) Nome:
18. PERSON MAKING THIS REPORT: (NAME AND TITLE): Chuch Bud inger District Environmental	19. SIGNATURE OF PERSON COMPLETING FORM AND DATE COMPLETED: (Walley W. Malwign 12/21/11.

APPENDIX E Material Sources Map

Arizona Department of Transportation Licensed Material Sources and Stockpile Sites



APPENDIX F Numeric Summary of BMPs

		Annual Reporting Year (July1 - June 30)						
Section	Stormwater BMP or Activity	2008-	2009-	2010-	2011-	2012-		
Number		2009	2010	2011	2012	2013		
	MEASURES TO CONTROL DISCHARGES THR	OUGH EDU	CATION					
3.2.2.1(a)(ii)(1)	Train ADOT Employees - Illicit discharges and illegal dumping (IDDE)							
	Number of trainings offered	7	17	13	NA			
	Number of employees trained		112	33	973			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(a)(ii)(2)	Train ADOT Employees - Non-stormwater discharges (combined with previous)							
	Number of trainings offered	7	17	13	NA			
	Number of employees trained	35	112	33	See IDDE			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(a)(ii)(3)	Train ADOT Employees - New Construction and land disturbances							
	Number of trainings offered	7	17	13	NA			
	Number of employees trained		112	33	See IDDE			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(a)(ii)(4)	Train ADOT Employees - New development and significant redevelopment							
	Number of trainings offered	7	17	13	NA			
	Number of employees trained	35	112	33	932			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(a)(ii)(5)	Train ADOT Employees - Storm sewer system and highway maintenance							
	Number of trainings offered	7	17	13	NA			
	Number of employees trained		112	33	906			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(a)(ii)(6)	Train ADOT Employees - Good housekeeping and material BMPs (combined some modules and changed titles)							
, , , , , ,	Spill Prevention and Response - Number of trainings offered	7	17	1	NA			
	Spill Prevention and Response - Number of employees trained	35	112	36	654			
	Pesticides, Herbicides, and Fertilizer Application - Number of trainings offered	7	17	1	NA			
	Pesticides, Herbicides, and Fertilizer Application - Number of employees trained	35	112	36	See Spill			
	Industrial Sites - Number of trainings offered	7	17	1	NA NA			
	Industrial Sites - Number of employees trained	35	112	36	971			
	(Other numeric measurable goals(s))	NA	NA	NA	NA NA			

		Annual Reporting Year (July1 - June 30)						
Section	Stormwater BMP or Activity	2008-	2009-	2010-	2011-	2012-		
Number		2009	2010	2011	2012	2013		
3.2.2.1(a)(iii)	Develop Stormwater Library							
	Number of times accessed or visited	NA	NA	NA	365			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.1(b)	ADOT Construction Contractor Training and Certification							
	Number of trainings offered	7	6	8	11			
	Number of ADOT employees trained/certified	35	22	34	46			
	Number of ADOT employees recertified	5	28	5	14			
	Number of ADOT contractors trained	NA	129	53	132			
3.2.2.2(b)(i)	Distribution of Educational Materials Through Public Places (refer to PAG and STORM annual reports)							
(/ (/	Number of materials (posters, brochures, signs, etc.) distributed	2600	4,577	5200	NA			
	Number of public events ADOT attended with displays	5	65	119	NA			
	Est'd Audience from tv, movie, radio, billboard, bus shelter PSAs	NA	13,534,800	4,268,300	NA			
	Educational items (coloring books, wrist bands, magnets, etc). distributed	NA	6,129	8,000	NA			
	Construction seminar provided	NA	NA	80	NA			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.2(b)(ii)	Distribution of Educational Materials Through ADOT's Stormwater Webpage							
	Number of hits on webpage	NA	NA	NA	365			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.3 (b)	Record and Consider Public Comments			-				
	Number of public comments received	0	0	0	0			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.3(c)	Implement a Public Reporting System			-				
	Number of reports received from public	0	0	0	0			
	Number of reports investigated	0	0	0	0			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.3(d)	Develop a Stormwater Component of the Adopt-a-Highway Litter Initiative			-				
	Number of volunteer groups participating	1,835	1,609	1,569	1618			
	Number of miles cleaned	2,291	2,026	3935.4	4108			
	Amount of trash collected (tons)	246	211	224	NA			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			
3.2.2.3(e)	Continue Implementation of Litter Hotline			<u>. </u>				
\ /	Number of calls received	3,389	2864	2776	NA			
	(Other numeric measurable goals(s))	NA	NA	NA	NA			

Numeric Summary of BMPs

		Annual Reporting Year (July1 - June 30)						
Section	Stormwater BMP or Activity	2008-	2009-	2010-	2011-	2012-		
Number		2009	2010	2011	2012	2013		
	ILLICIT DISCHARGE/ILLEGAL DUMPING DETECTION AI	ND ELIMINA	ATION MEASUR	RES				
3.2.3.1(a)	Maintain Illicit Discharge Authority							
	(Numeric Measurable goal(s))	0	0	0	0			
3.2.3.1(b)	Enforce Standard Encroachment Permit							
	Number of enforcement actions	0	0	0	0			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.1(c)	Implement Non-Stormwater BMPs							
	(Numeric Measurable goal(s))	NA	NA	NA	NA			
3.2.3.1(d)	Inspect Outfalls for Dry Weather Discharges							
	Number of major outfalls inspected		35	0	51			
	Number of 71 identified major outfalls inspected		35	0				
	Number of priority outfalls inspected		0	0				
	Number of storm drain cross connection detected	0	0	0				
	Number of illicit discharges detected	1	1	0	6			
	Number of other dry weather flows detected		0	0	7			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.3(b)	Investigate Illicit Discharges (Source Identification)							
	Number of storm drain cross connection investigated	0	0	0				
	Number of illicit discharges investigated		0	7	9			
	Number of other dry weather flows investigated		0	0	7			
	(Other numeric measurable goal(s))	NA	NA	0	NA			

Numeric Summary of BMPs

		Annual Reporting Year (July1 - June 30)						
Section	Stormwater BMP or Activity	2008-	2009-	2010-	2011-	2012-		
Number		2009	2010	2011	2012	2013		
3.2.3.3(c)	Respond to Complaints							
	Number of complaints received	0	0	0	0			
	Number of complaints responded to	0	0	0	0			
	Average response time (in days)	0	0	0	0			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.3(d)	Report Incidental Dry Weather Discharges							
	Number of discharges reported to ADEQ	1	1	0	0			
	(Other numeric measurable goal(s))	NA	NA	0	NA			
3.2.3.4(a)	Take Action to Eliminate Existing Dry Weather Flows							
	Number of existing dry weather discharges eliminated		0	0	0			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.4(b)	Take Action to Eliminate Sources of Illicit Discharges							
	Number of storm drain cross connection eliminated	0	0	0	0			
	Number of illicit discharges eliminated	1	1	7	7			
	Number of dry weather discharges eliminated		1	0	6			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.4(c)	Coordinate with Local Jurisdictions for Complaint Response and Investigation							
	Number of illicit discharges reported to other jurisdictions for follow-up	1	0	0	5			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.3.5	Responding to Spills		-	-	-	-		
	Number of highway accident spills responded to	0	156	180	196			
	Number of highway accident spills prioritized (potential for discharge)	0	156	10	17			
	Hazardous material released	NA	NA	50	17			

Numeric Summary of BMPs

		Annual Reporting Year (July1 - June 30)						
Section	Stormwater BMP or Activity	2008-	2009-	2010-	2011-	2012-		
Number		2009	2010	2011	2012	2013		
	MEASURES TO CONTROL DISCHARGES FROM NEW DEVEL	OPMENT A	ND REDEVEL	OPMENT				
3.2.5.2	Install Post-Construction Stormwater Control BMPs							
	Number of new post-construction stormwater control BMPs installed		0	0	0			
	(Other numeric measurable goal(s))		NA	NA	NA			
	MEASURES TO CONTROL DISCHARGES FR	ROM ROAD	WAYS					
3.2.6.1(b)	Inspect Storm Sewer System							
	Number of inspections performed		51	51	51			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.6.1(c)	Develop Maintenance Schedules and Priorities							
	(Numeric measurable goal(s))	NA	NA	NA	NA			
3.2.6.1(d)	Perform Repair, Maintenance, and Cleaning							
	Number of miles of roadways repaired/maintained	0*	0*	0*	0			
	Number of inlets cleaned	0*	0*	0*	0			
	Number of drain inlets containing significant materials		0*	0*	0			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			
3.2.6.2(c)(ii)	Require Certification/License							
	Number of licensed ADOT applicators	41	41	40				
3.2.6.2(d)	Stabilize Roadway Slopes (attach summary of tracking & prioritization)							
	Acres of roadway slopes stabilized	0	0	0	NA			
* In accordance	e with 3.2.6.1(b), ADOT has 24 months to implement a system to inspect and re	ecord condi	tions of its storn	n sewer syst	em			
	MEASURES TO CONTROL DISCHARGES FROM ADOT	MAINTENA	NCE FACILITI	ES				
4.1.5.3	Stencil Drain Inlets at ADOT Facilities							
	Number of new catch basins installed	0	0	0	0			
	Number of catch basins marked or stenciled	15	0	0	0			
	(Other numeric measurable goal(s))	NA	NA	NA	NA			

APPENDIX G Monitoring Data for MS4 Locations

Phoenix Tucson



OUTFALL ID: 101-13.68 MONITORING SEASONS RECEIVING WATER: Skunk Creek (a reach of Cave Creek) Summer: June 1- October 31 WATERSHED: Middle Gila Winter: November 1- May 31 DESIGNATED USES: A&We, PBC AUTOSAMPLER STARTUP DATE: July 13, 2011 Winter Summer Winter Summer Winter Winter Summer 2009-10 (previous sampling conducted with passive samplers) 2008-09 2009 2010 2010-11 Summer 2011 2011-12 2012 SAMPLING DATE 12/17/08 7/21/09 2/28/10 NS NS NS 11/5/11 MONITORING PARAMETERS WQS Flow NNS 1.7gpm 1.4gpm NS NS NS 42 рΗ 5.0-9.0 7.75 7.21 8.52 NS NS NS 7.23 Temperature (F°) NNS 54.4 56.5 NS NS 57.2 96.9 NS Hardness 60 NS NS NNS 180 NS NS Specific conductance (mg/L) NNS 550 1500 NS NS NS NS 900 Total Dissolved Solids (TDS) (mg/L) NS 500.00 290 720* 97 NS NS NS Total Suspended Solids (TSS) (mg/L) NNS 85 76 NS NS NS NS Turbidity (NTU) NNS 49 21 100 NS NS NS NS Biochemical Oxygen Demand (BOD) (mg/L) NNS 13 40 <5.0 NS NS NS NS Chemical Oxygen Demand (COD) (mg/L) NS NS NNS 110 350 70 NS NS Surfactants (mg/L) NNS NS NS NS NS NS NS NS Inorganics Cyanide (mg/L) <0.0050 <0.0080 0.20 < 0.0050 < 0.0050 NS NS NS Sulfates (mg/L) 250.00 56 7.6 NS NS NS NS Nutrients Nitrate (mg/L) 10.00 3.3 4 1.1 NS NS NS NS Nitrite (mg/L) NS 1.00 0.19 0.77 <0.10 NS NS NS Total Ammonia (mg/L) NNS NS NS NS NS NS NS NS Total Kjeldahl Nitrogen (TKN) (mg/L) NNS 3 12 1.5 NS NS NS NS Total Phosphorous (mg/L) NNS 1.1 0.25 NS NS NS NS Phosphate, Ortho (mg/L) NNS < 0.12 0.46 0.48 NS NS NS NS Sodium (mg/L) NNS 49 85 1.3 NS NS NS NS Calcium (mg/L) NNS 46 64 150 NS NS NS NS Chloride (mg/L) NNS NS NS NS NS 69 130 6.9

RECEIVING WATER: Skunk Creek (a reach of Ca	ave Creek)			Sur	nmer: Jun	e 1- Octo	ber 31			
WATERSHED: Middle Gila			Winter: November 1- May 31							
DESIGNATED USES: A&We, PBC										
AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive sampling con		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012	
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11		
Microbiological										
Coliform, fecal (col/100 ml)	NNS	>1,200	•	>200	NS	NS	NS	NS		
E.Coli (cfu/100 ml)	100.00	>24,200	i	-	NS	NS	NS	170		
Total Metals										
Antimony (mg/L)	0.006	<0.020	0.0037	<0.020	NS	NS	NS	NS		
Arsenic (mg/L)	0.050	<0.021	0.0064	<0.020	NS	NS	NS	NS		
Barium (mg/L)	2.000	0.098	0.14	0.074	NS	NS	NS	NS		
Beryllium (mg/L)	0.004	<0.0020	<0.0020	<0.0020	NS	NS	NS	NS		
Cadmium (mg/L)	0.005	<0.0050	<0.0050	<0.0050	NS	NS	NS	NS		
Chromium (mg/L)	0.100	<0.010	<0.010	<0.010	NS	NS	NS	NS		
Copper (mg/L)	1.300	0.023	0.073	<0.020	NS	NS	NS	NS		
Lead (mg/L)	0.015	0.0084	0.006	0.0064	NS	NS	NS	NS		
Mercury (mg/L)	0.002	<0.00020	<0.00020	<0.0002	NS	NS	NS	NS		
Nickel (mg/L)	0.140	<0.020	<0.020	<0.020	NS	NS	NS	NS		
Selenium (mg/L)	0.020	<0.020	<0.020	<0.020	NS	NS	NS	NS		
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS		
Zinc (mg/L)	2.10	0.053	0.14	4.7	NS	NS	NS	NS		
Organic Toxic Pollutants										
Total Petroleum Hydrocarbons (TPH) (mg/L)	NNS	0.73	2.7	0.32	NS	NS	NS	0.29		
Oil & Greese (Hexane Extr) (mg/L)	NNS	<5.0	<5.9	<5.3	NS	NS	NS	7.3		
Chlorine, residual (mg/L)	0.70000	0.2	<0.10	<0.10	NS	NS	NS	NS		

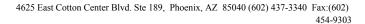
RECEIVING WATER: Skunk Creek (a reach of C WATERSHED: Middle Gila	ave Creek)	Summer: June 1- October 31 Winter: November 1- May 31							
DESIGNATED USES: A&We, PBC									
AUTOSAMPLER STARTUP DATE: July 13, 201 (previous sampling conducted with passive sa	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012	
SAF	IPLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
VOCs, Semi-VOCs and Pesticides									
Benzene (mg/L)	0.0050	<0.00050	<0.00050	<0.0010	NS	NS	NS	<0.50	
Ethylbenzene (mg/L)	0.0050	0.00068	<0.00050	<0.0010	NS	NS	NS	<1.0	
Toluene (mg/L)	1.00	<0.0050	<0.0050	<0.0050	NS	NS	NS	<1.0	
Total Xylene (mg/L)	10.00	0.0039	<0.0015	<0.0030	NS	NS	NS	<1.5	
Chromium, Trivalent (mg/L)	NNS	<0.010	<0.010	-	NS	NS	NS	NS	
MBAS (mg/L)	NNS	0.3	1.1	<1.0	NS	NS	NS	NS	
Endrin ketone (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Hexachlorobenzene (mg/L)	0.001	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Methoxychlor (mg/L)	0.004	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Benzidine (mg/L)	0.000	<0.050	<0.050	<0.010	NS	NS	NS	NS	
Bis(2-chlorethoxy)methane (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bis(2-chloroethyl)ether (mg/L)	0.030	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bis(2-chloroisopropyl)ether (mg/L)	0.280	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Bromophenyl-phenylether (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2-Chloronaphthalene (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
4-Chlorophenyl-phenylether (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
3,3-Dichlorobenzidine (mg/L)	0.0031	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dinitrotoluene (mg/L)	0.0140	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,6-Dinitrotoluene (mg/L)	0.0001	<0.010	<0.010	<0.010	NS	NS	NS	NS	

RECEIVING WATER: Skunk Creek (a reach of C	ave Creek)	Summer: June 1- October 31							
WATERSHED: Middle Gila		Winter: November 1- May 31							
DESIGNATED USES: A&We, PBC									
AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive samplers)		Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAN	IPLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Hexachlorobenzene (mg/L)	0.0010	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachloro-1,3-butadiene (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachlorocyclopentadiene (mg/L)	0.0500	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Hexachloroethane (mg/L)	0.0025	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Indeno(1,2,3-cd)pyrene (mg/L)	0.0005	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Isophorone (mg/L)	0.0370	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Nitrobenzene (mg/L)	0.0035	<0.010	<0.010	<0.010	NS	NS	NS	NS	
n-Nitrosodimethylamine (mg/L)	0.0080	<0.050	<0.050	<0.010	NS	NS	NS	NS	
n-Nitrosodiphenylamine (mg/L)	0.0071	<0.010	<0.010	<0.010	NS	NS	NS	NS	
n-Nitrosodi-n-propylamine (mg/L)	0.0050	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Benzylbutyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Bis(2-ethylhexyl)phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
1,2,4-Trichlorobenzene (mg/L)	0.070	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Chloro-3-methylphenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4,6-Dinitro-2-methylphenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	

RECEIVING WATER: Skunk Creek (a reach of Ca	ave Creek)	Summer: June 1- October 31							
WATERSHED: Middle Gila				Wii	nter: Nove	mber 1- N	May 31		
DESIGNATED USES: A&We, PBC							•		
AUTOSAMPLER STARTUP DATE: July 13, 2011		Winter	Summer	Winter	Summer	Winter		Winter	Summer
(previous sampling conducted with passive san	nplers)	2008-09	2009	2009-10	2010	2010-11	Summer 2011	2011-12	2012
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Acid Compounds									
2-Chlorophenol (mg/L)	0.035	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dichlorophenol (mg/L)	0.021	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4-Dimethylphenol (mg/L)	0.140	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4,6-Dinitrocreosol (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
2,4-Dinitrophenol (mg/L)	0.014	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
4-Nitrophenol (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS	
P-Chloro-m-cresol (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Pentachlorophenol (mg/L)	0.001	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Phenol (mg/L)	4.20	<0.010	<0.010	<0.010	NS	NS	NS	NS	
2,4,6-Trichlorophenol (mg/L)	0.00320	<0.010	<0.010	<0.010	NS	NS	NS	NS	
Bases/Neutrals									
Acenaphthene (mg/L)	0.42	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Acenaphthylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Anthracene (mg/L)	2.10	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(a)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(a)pyrene (mg/L)	0.00020	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(b)fluoranthene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(g,h,i)perylene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Benzo(k)fluoranthene (mg/L)	0.0480	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Chrysene (mg/L)	0.00479	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Dibenzo(a,h)anthracene (mg/L)	0.00190	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Diethyl phthalate (mg/L)	5.60	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Dimethyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Di-n-butyl phthalate (mg/L)	NNS	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
Di-n-octyl phthalate (mg/L)	2.80	<0.010	<0.010	<0.0010	NS	NS	NS	NS	
1,2-Diphenylhydrazine (Azobenzene) (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Fluoranthene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Fluorene (mg/L)	0.28	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Indeno(1,2,3-cd)pyrene (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Naphthalene (mg/L)	0.14	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Phenanthrene (mg/L)	NNS	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	
Pyrene (mg/L)	0.21	<0.0010	<0.010	<0.0010	NS	NS	NS	NS	

RECEIVING WATER: Skunk Creek (a reach of Ca	ive Creek)			Sur	nmer: Jun	e 1- Octo	ber 31		
WATERSHED: Middle Gila				Wir	nter: Nove	mber 1- I	May 31		
DESIGNATED USES: A&We, PBC									
AUTOSAMPLER STARTUP DATE: July 13, 2011 (previous sampling conducted with passive sam	plers)	Winter 2008-09	Summer 2009	Winter 2009-10	Summer 2010	Winter 2010-11	Summer 2011	Winter 2011-12	Summer 2012
SAM	PLING DATE	12/17/08	7/21/09	2/28/10	NS	NS	NS	11/5/11	
Pesticides									
Aldrin (mg/L)	0.0020	<0.00050	<0.00051	<0.000050	NS	NS	NS	NS	
Alpha BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Beta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Delta BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Gamma BHC (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Chlordane (mg/L)	0.0020	<0.0050	<0.00050	<0.00050	NS	NS	NS	NS	
4,4-DDD (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
4,4-DDE (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
4,4-DDT (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Dieldrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Alpha-endenosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Beta-endenosulfan (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS	
Endosulfan sulfate (mg/L)	NNS	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Endrin (mg/L)	0.0020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Endrin aldehyde (mg/L)	NNS	<0.00050	0.000088	<0.000050	NS	NS	NS	NS	
Heptachlor (mg/L)	0.00040	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Heptachlor epoxide (mg/L)	0.00020	<0.00050	<0.000050	<0.000050	NS	NS	NS	NS	
Toxaphene (mg/L)	NNS	<0.010	<0.00050	<0.00050	NS	NS	NS	NS	

NS - Not Sampled





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 11/05/11 Received: 11/07/11

Issued: 11/17/11 10:40

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PUK0435-01 Phx11511 Water

SAMPLE RECEIPT: Samples were received intact, at 2°C, on ice and with chain of custody documentation.

Samples submitted for Cyanide analysis are tested for the presence of Sulfides within 24 hours of sampling.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

The sample submitted for Cyanide analysis was received and tested for the presence of Sulfides after the

24 hour hold time had expired.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Carlese McClotchem

Carlene McCutcheon Project Manager



Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140
Phoenix, AZ 85020
Report Number: PUK0435
Sampled: 11/05/11
Received: 11/07/11

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	11K0432	5.0	7.3	1	11/10/2011	11/10/2011	



Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water	·)							
Reporting Units: mg/l								
Extractable Fuel Hydrocarbons (C10 -	EPA 8015D	11K0333	0.10	0.29	1	11/8/2011	11/9/2011	
C32)								
Surrogate: o-terphenyl (40-145%)				75 %				



THE LEADER IN ENVIRONMENTAL TESTING

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Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Wate	er)							
Reporting Units: mg/l Cyanide, Total	SM 4500CN-E	11K0368	0.0080	ND	1	11/9/2011	11/9/2011	



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Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

MICROBIOLOGICALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0435-01 (Phx11511 - Water)								
Reporting Units: MPN/100 ml E. Coli - MPN	SM 9221F	11K0557	2	170	1	11/7/2011	11/9/2011	Н3



Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

BTEX (EPA 5030B/8021B)

	M. d. l	D 4 1	Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0435-01 (Phx1	1511 - Water)							
Reporting Units: ug/l								
Benzene	EPA 8021B	11K0490	0.50	ND	1	11/14/2011	11/14/2011	
Toluene	EPA 8021B	11K0490	1.0	ND	1	11/14/2011	11/14/2011	
Ethylbenzene	EPA 8021B	11K0490	1.0	ND	1	11/14/2011	11/14/2011	
Total Xylenes	EPA 8021B	11K0490	1.5	ND	1	11/14/2011	11/14/2011	
Surrogate: 4-BFB (PID) (70-130%)				112 %				



454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.05

7878 N. 16th Street, Suite 140

Sampled: 11/05/11 Phoenix, AZ 85020 Report Number: PUK0435 Received: 11/07/11

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Phx11511 (PUK0435-01) - Water	r				
SM 9221F	0	11/05/2011 07:34	11/07/2011 11:04	11/07/2011 12:30	11/09/2011 11:50



454-9303

Engineering and Environmental Consultants Phoenix

Project ID: 308032.05

7878 N. 16th Street, Suite 140

Sampled: 11/05/11 Report Number: PUK0435 Received: 11/07/11

Phoenix, AZ 85020 Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0432 Extracted: 11/10/11										
Blank Analyzed: 11/10/2011 (11K0432-I	BLK1)									
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
LCS Analyzed: 11/10/2011 (11K0432-BS	S1)									
N-Hexane Extractable (HEM)	39.6	5.0	mg/l	40.0		99	78-114			
LCS Dup Analyzed: 11/10/2011 (11K043	32-BSD1)									
N-Hexane Extractable (HEM)	40.8	5.0	mg/l	40.0		102	78-114	3	18	
Matrix Spike Analyzed: 11/10/2011 (11F	K0432-MS1)				Source: F	UK0293-0	05			
N-Hexane Extractable (HEM)	34.4	5.0	mg/l	40.0	ND	86	78-114			



Project ID: 308032.05 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 11/05/11 Phoenix, AZ 85020 Report Number: PUK0435 Received: 11/07/11

Attention: John Burton

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0333 Extracted: 11/08/11										
Blank Analyzed: 11/09/2011 (11K0333-I	BLK1)									
Extractable Fuel Hydrocarbons (C10 - C32)	ND	0.10	mg/l							
Surrogate: o-terphenyl	0.0831		mg/l	0.100		83	40-145			
LCS Analyzed: 11/09/2011 (11K0333-BS	S1)									Q8
Extractable Fuel Hydrocarbons (C10 - C32)	0.338	0.10	mg/l	0.400		84	70-130			
Surrogate: o-terphenyl	0.0852		mg/l	0.100		85	70-130			
LCS Dup Analyzed: 11/09/2011 (11K03	33-BSD1)									Q8
Extractable Fuel Hydrocarbons (C10 - C32)	0.373	0.10	mg/l	0.400		93	70-130	10	20	
Surrogate: o-terphenyl	0.0871		mg/l	0.100		87	70-130			



THE LEADER IN ENVIRONMENTAL TESTING

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Project ID: 308032.05 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 11/05/11 Received: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0435

Attention: John Burton

METHOD BLANK/QC DATA

BTEX (EPA 5030B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0490 Extracted: 11/14/11										
Blank Analyzed: 11/14/2011 (11K0490-	BLK1)									
Benzene	ND	0.50	ug/l							
Toluene	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Total Xylenes	ND	1.5	ug/l							
Surrogate: 4-BFB (PID)	93.4		ug/l	80.0		117	70-130			
LCS Analyzed: 11/14/2011 (11K0490-B	S1)									Q8
Benzene	18.4	0.50	ug/l	20.0		92	70-130			
Toluene	18.9	1.0	ug/l	20.0		95	70-130			
Ethylbenzene	19.4	1.0	ug/l	20.0		97	70-130			
Total Xylenes	58.9	1.5	ug/l	60.0		98	70-130			
Surrogate: 4-BFB (PID)	94.8		ug/l	80.0		119	70-130			
LCS Dup Analyzed: 11/14/2011 (11K04	90-BSD1)									Q8
Benzene	22.5	0.50	ug/l	20.0		113	70-130	20	20	_
Toluene	23.2	1.0	ug/l	20.0		116	70-130	20	20	
Ethylbenzene	23.5	1.0	ug/l	20.0		118	70-130	19	20	
Total Xylenes	71.3	1.5	ug/l	60.0		119	70-130	19	20	
Surrogate: 4-BFB (PID)	94.6		ug/l	80.0		118	70-130			

TestAmerica Phoenix



THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: 308032.05 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 11/05/11 Phoenix, AZ 85020 Report Number: PUK0435 Received: 11/07/11

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 11K0368 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0368-B			_							
Cyanide, Total	ND	0.0080	mg/l							
LCS Analyzed: 11/09/2011 (11K0368-BS	1)									
Cyanide, Total	0.108	0.0080	mg/l	0.100		108	90-110			
LCS Dup Analyzed: 11/09/2011 (11K036	8-BSD1)									
Cyanide, Total	0.100	0.0080	mg/l	0.100		100	90-110	7	20	
Matrix Spike Analyzed: 11/09/2011 (11K	0368-MS1)				Source: P	UK0225-0)1			
Cyanide, Total	0.100	0.0080	mg/l	0.100	ND	100	80-120			
Matrix Spike Dup Analyzed: 11/09/2011	(11K0368-MS	D1)			Source: P	UK0225-0)1			
Cyanide, Total	0.112	0.0080	mg/l	0.100	ND	112	80-120	11	20	



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Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

H3 Sample was received and analyzed past holding time.

Q8 Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies

0154.000 and 0155.000.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO):

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.05

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0435

Sampled: 11/05/11

Received: 11/07/11

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A	Water		X
EPA 8015D	Water		X
EPA 8021B	Water	X	X
SM 4500CN-E	Water		X
SM 9221F	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmericc

CHAIN OF CUSTODY FORM

PUKO435-Revised

THE LEADER IN ENVIRONMENTAL TESTING TAL-0013-550 (10/10)

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page.

Client Name/Address:			Project	Project/PO Numi	ber				1000		Δna	Analysis Required	nired			
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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING TAL-0013-550 (10/10)

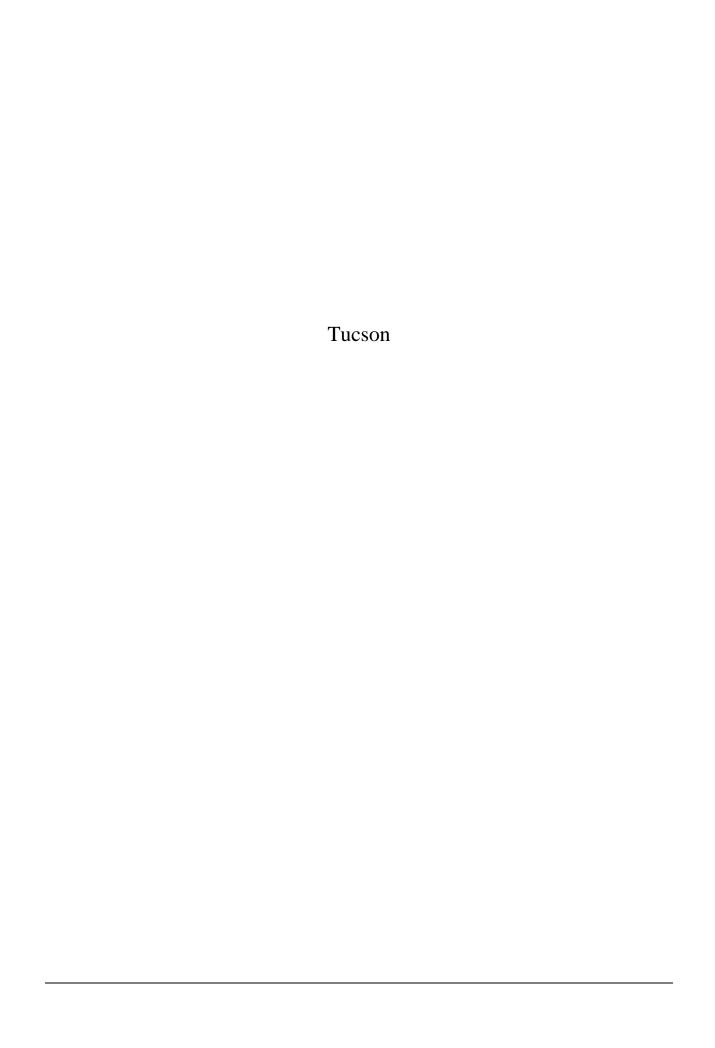
CHAIN OF CUSTODY FORM

PUKO435

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Client Name / Address:			Project/	Project/PO Numbe	er						¥	Analysis Required	equired			
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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



OUTFALL ID: Tucson MS4 Grant Road

RECEIVING WATER: Santa Cruz

MONITORING SEASONS

Summer: June 1 - October 31

RECEIVING WATER: Santa Cruz				Summer:	June 1 - Oc	tober 31		
WATERSHED: Sanata Cruz				Winter: N	lovember 1	- May 31		
DESIGNATED USES: A&We, PBC						•		
AUTOSAMPLER STARTUP DATE: March 21, 2 (previous sampling conducted with passive sampling condu		Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12
SAN	IPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
MONITORING PARAMETERS	wqs							
Flow	NNS	-	1	-	NS	NS	NS	276
рН	6.5-8.5	1	1	7.3	NS	NS	NS	7.1
Temperature (F°)	NNS	62.3	88.1	64.4	NS	NS	NS	65.1
Hardness	NNS	250		470	NS	NS	NS	NS
Specific conductance (mg/L)	500	NS	NS	NS	NS	NS	NS	235
Total Dissolved Solids (TDS) (mg/L)	500	680*	680*	910	NS	NS	NS	NS
Total Suspended Solids (TSS) (mg/L)	NNS	110	160	130	NS	NS	NS	NS
Turbidity (NTU)	NNS	94	-	58	NS	NS	NS	NS
Biochemical Oxygen Demand (BOD) (mg/L)	NNS	65	44	90	NS	NS	NS	NS
Chemical Oxygen Demand (COD) (mg/L)	NNS	560	640	490	NS	NS	NS	NS
Surfactants (mg/L)	NNS	NS	NS	NS	NS	NS	NS	NS
Inorganics								
Cyanide, total (mg/L)	0.2	0.0059	<0.0050	<0.10	NS	NS	NS	<0.0080
Sulfates (mg/L)	250	110	68	-	NS	NS	NS	NS
Nutrients				T				
Nitrate (mg/L)	1	<0.10	0.21	9.9	NS	NS	NS	NS
Nitrite (mg/L)	10	<0.10	<0.10	1.9	NS	NS	NS	NS
Total Ammonia (mg/L)	NNS	6.2	6.7	<0.50	NS	NS	NS	NS
Total Kjeldahl Nitrogen (TKN) (mg/L)	NNS	12	14	7.8	NS	NS	NS	NS
Total Phosphorous (mg/L)	NNS	0.42	0.36	0.58	NS	NS	NS	NS
Phosphate, Ortho (mg/L)	NNS	0.62	<0.12	310	NS	NS	NS	NS
Sodium (mg/L)	NNS	-	18	18	NS	NS	NS	NS
Calcium (mg/L)	NNS	-	100	150	NS	NS	NS	NS
Chloride (mg/L)	10	26	19	14	NS	NS	NS	NS

RECEIVING WATER: Santa Cruz Summer: June 1 - October 31 WATERSHED: Sanata Cruz Winter: November 1 - May 31

WATERSHED. Saliata Cruz				Winter: N	lovember 1	- May 31		
DESIGNATED USES: A&We, PBC								
AUTOSAMPLER STARTUP DATE: March 21, 2 (previous sampling conducted with passive sampling condu		Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12
SAN	IPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
Microbiological								
Coliform, fecal (col/100 ml)	NNS	-		2400*	NS	NS	NS	NS
E.Coli (cfu/100 ml)	100.00	ı	•	390	NS	NS	NS	<2
Total Metals								
Antimony (mg/L)	0.00600	-	0.0046	<0.20	NS	NS	NS	NS
Arsenic (mg/L)	0.05000	<0.020	0.003	<0.040	NS	NS	NS	NS
Barium (mg/L)	2.0T	0.2	0.2	0.2	NS	NS	NS	NS
Beryllium (mg/L)	0.00400	<0.0050	<0.0020	<0.0020	NS	NS	NS	NS
Cadmium (mg/L)	0.00500	-	<0.0050	<0.0020	NS	NS	NS	NS
Chromium (mg/L)	0.1T	<0.010	<0.010	<0.030	NS	NS	NS	NS
Copper (mg/L)	1.3T	-	0.033	0.13	NS	NS	NS	NS
Lead (mg/L)	0.015T	0.015	<0.0050	<0.040	NS	NS	NS	NS
Mercury (mg/L)	0.00200	<0.00020	<0.00020	<0.0010	NS	NS	NS	NS
Nickel (mg/L)	0.14000	-	<0.020	<0.050	NS	NS	NS	NS
Selenium (mg/L)	0.02000	<0.020	0.02	<0.040	NS	NS	NS	NS
Silver (mg/L)	NNS	<0.010	<0.010	<0.010	NS	NS	NS	NS
Zinc (mg/L)	2.1T	-	0.18	0.41	NS	NS	NS	NS
Organic Toxic Pollutnats								
Total Petroleum Hydrobarbons (TPH) (mg/L)	NNS	6.2	-	-	NS	NS	NS	1.8
Oil & Greese (Hexane Extr) (mg/L)	NNS	<5.6	<6.7	9.2	NS	NS	NS	9.9
Chlorine, residual (mg/L)	0.7	<0.10	-	<0.10	NS	NS	NS	NS

RECEIVING WATER: Santa Cruz Summer: June 1 - October 31 WATERSHED: Sanata Cruz Winter: November 1 - May 31

WATEROILD. Gallata Gruz				winter: N	lovember 1	- May 31		
DESIGNATED USES: A&We, PBC								
AUTOSAMPLER STARTUP DATE: March 21	•	Winter 2008		Winter 2009-	Summer	Winter 2010-	Summer	Winter 2011-
(previous sampling conducted with passive	samplers)	09	Summer 2009	10	2010	11	2011	12
S	AMPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
VOCs, Semi-VOCs and Pesticides								
Benzene (mg/L)	0.005	<0.0010	<0.00050	<0.50	NS	NS	NS	<0.50
Ethylbenzene (mg/L)	0.70000	<0.0010	< 0.00050	<0.50	NS	NS	NS	<1.0
Toluene (mg/L)	1.00000	<0.0050	<0.0050	<0.50	NS	NS	NS	<1.0
Total Xylene (mg/L)	10.00000	<0.0030	<0.0015	<0.50	NS	NS	NS	<1.5
Chromium, Hexavalent (mg/L)	NNS	-	<0.010	-	NS	NS	NS	NS
Chromium, Trivalent (mg/L)	NNS	-	<0.010	-	NS	NS	NS	NS
MBAS (mg/L)	NNS	-	11	-	NS	NS	NS	NS
Specific conductance (mg/L)	NNS	720	690	1000	NS	NS	NS	NS
Total Nitrogen (mg/L)	NNS	12	•	11.8	NS	NS	NS	NS
Toluene - d8 (mg/L)	NNS	99		<0.50	NS	NS	NS	NS
Dibromofluoromethane (mg/L)	TTHM	100	•	-	NS	NS	NS	NS
Endrin ketone (mg/L)	NNS	-	<0.000050	<0.96	NS	NS	NS	NS
Hexachlorobenzene (mg/L)	0.00100	-	<0.000050	<96	NS	NS	NS	NS
Methoxychlor (mg/L)	0.00400	-	<0.000050	<96	NS	NS	NS	NS
Benzidine (mg/L)	0.00020	-	< 0.050	<96	NS	NS	NS	NS
Bis(2-chlorethoxy)methane (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Bis(2-chloroethyl)ether (mg/L)	0.03000	-	<0.010	<96	NS	NS	NS	NS
Bis(2-chloroisopropyl)ether (mg/L)	0.28000	-	<0.010	<96	NS	NS	NS	NS
4-Bromophenyl-phenylether (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
2-Chloronaphthalene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4-Chlorophenyl-phenylether (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
3,3-Dichlorobenzidine (mg/L)	0.00310	-	<0.010	<190	NS	NS	NS	NS
2,4-Dinitrotoluene (mg/L)	0.01400	-	<0.010	<96	NS	NS	NS	NS
2,6-Dinitrotoluene (mg/L)	0.00005	-	<0.010	<96	NS	NS	NS	NS
Hexachlorobenzene (mg/L)	0.00100	-	<0.010	<96	NS	NS	NS	NS
Hexachloro-1,3-butadiene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Hexachlorocyclopentadiene (mg/L)	0.05000	-	<0.010	<96	NS	NS	NS	NS
Hexachloroethane (mg/L)	0.00250	-	<0.010	<96	NS	NS	NS	NS
Isophorone (mg/L)	0.03700	-	<0.010	<96	NS	NS	NS	NS
Nitrobenzene (mg/L)	0.00350	-	<0.010	<96	NS	NS	NS	NS
n-Nitrosodimethylamine (mg/L)	0.00800	-	<0.050	<96	NS	NS	NS	NS
n-Nitrosodiphenylamine (mg/L)	0.00710	-	<0.010	<96	NS	NS	NS	NS

RECEIVING WATER: Santa Cruz

WATERSHED: Sanata Cruz

Summer: June 1 - October 31

Winter: November 1 - May 31

DESIGNATED USES: A&We, PBC								
AUTOSAMPLER STARTUP DATE: March 21 (previous sampling conducted with passive		Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12
SA	MPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
n-Nitrosodi-n-propylamine (mg/L)	0.00500	-	<0.010	<96	NS	NS	NS	NS
Benzylbutyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Bis(2-ethylhexyl)phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
1,2,4-Trichlorobenzene (mg/L)	0.07000	-	<0.010	<96	NS	NS	NS	NS
4-Chloro-3-methylphenol (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol (mg/L)	NNS	-	<0.010	<190	NS	NS	NS	NS
Acid Compounds								
2-Chlorophenol (mg/L)	0.03500	-	<0.010	<96	NS	NS	NS	NS
2,4-Dichlorophenol (mg/L)	0.02100	-	<0.010	<96	NS	NS	NS	NS
2,4-Dimethylphenol (mg/L)	0.14000	-	<0.010	<96	NS	NS	NS	NS
2,4-Dinitrophenol (mg/L)	0.01400	-	<0.010	<480	NS	NS	NS	NS
2-Nitrophenol (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
4-Nitrophenol (mg/L)	NNS	-	<0.010	<480	NS	NS	NS	NS
Pentachlorophenol (mg/L)	0.00100	-	<0.010	<290	NS	NS	NS	NS
Phenol (mg/L)	4.20000	-	<0.010	<96	NS	NS	NS	NS
2,4,6-Trichlorophenol (mg/L)	0.00320	-	<0.010	<96	NS	NS	NS	NS

RECEIVING WATER: Santa Cruz

WATERSHED: Sanata Cruz

Summer: June 1 - October 31

WATERSHED: Sanata Cruz				Winter: N	lovember 1	- May 31		
DESIGNATED USES: A&We, PBC								
AUTOSAMPLER STARTUP DATE: March 21, 2 (previous sampling conducted with passive sampling condu		Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12
SAN	IPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
Bases/Neutrals								
Acenaphthene (mg/L)	0.42000	-	<0.010	<48	NS	NS	NS	NS
Acenaphthylene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Anthracene (mg/L)	2.10000	-	<0.010	<48	NS	NS	NS	NS
Benzo(a)anthracene (mg/L)	0.00190	-	<0.010	<48	NS	NS	NS	NS
Benzo(a)pyrene (mg/L)	0.00020	-	<0.010	<48	NS	NS	NS	NS
Benzo(b)fluoranthene (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Benzo(g,h,i)perylene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Benzo(k)fluoranthene (mg/L)	0.04800	-	<0.010	<96	NS	NS	NS	NS
Chrysene (mg/L)	0.00479	-	<0.010	<48	NS	NS	NS	NS
Dibenz(a,h)anthracene (mg/L)	0.00190	-	<0.010	<48	NS	NS	NS	NS
Diethyl phthalate (mg/L)	5.60000	-	<0.010	<96	NS	NS	NS	NS
Dimethyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Di-n-butyl phthalate (mg/L)	NNS	-	<0.010	<96	NS	NS	NS	NS
Di-n-octyl phthalate (mg/L)	2.80000	-	<0.010	<96	NS	NS	NS	NS
Fluoranthene (mg/L)	0.28000	-	<0.010	<48	NS	NS	NS	NS
Fluorene (mg/L)	0.28000	-	<0.010	<48	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene (mg/L)	0.00048	-	<0.010	<48	NS	NS	NS	NS
Naphthalene (mg/L)	0.14000	-	<0.010	<48	NS	NS	NS	NS
Phenanthrene (mg/L)	NNS	-	<0.010	<48	NS	NS	NS	NS
Pyrene (mg/L)	0.21000	-	<0.010	<48	NS	NS	NS	NS

RECEIVING WATER: Santa Cruz

WATERSHED: Sanata Cruz

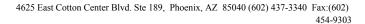
DESIGNATED USES: A&We, PBC

Summer: June 1 - October 31

anata Cruz Winter: November 1 - May 31

DESIGNATED USES. Adve, FBC								
AUTOSAMPLER STARTUP DATE: March 21, 2 (previous sampling conducted with passive sampling condu	-	Winter 2008- 09	Summer 2009	Winter 2009- 10	Summer 2010	Winter 2010- 11	Summer 2011	Winter 2011- 12
SAN	IPLING DATE	12/1/08	6/30/09	4/23/10	NS	NS	NS	11/7/11
Pesticides								
Aldrin (mg/L)	0.00200	-	<0.000050	<96	NS	NS	NS	NS
Alpha BHC (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Beta BHC (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Delta BHC (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Gamma BHC (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Chlordane (mg/L)	0.00200	-	<0.00050	<96	NS	NS	NS	NS
4,4-DDD (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
4,4-DDE (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
4,4-DDT (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Dieldrin (mg/L)	0.00200	-	<0.000050	<96	NS	NS	NS	NS
Endosulfan I (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Endosulfan II (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Endosulfan sulfate (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Endrin (mg/L)	0.00200	-	<0.000050	<96	NS	NS	NS	NS
Endrin aldehyde (mg/L)	NNS	-	<0.000050	<96	NS	NS	NS	NS
Heptachlor (mg/L)	0.00040	-	<0.000050	<96	NS	NS	NS	NS
Heptachlor epoxide (mg/L)	0.00020	•	<0.000050	<96	NS	NS	NS	NS
Toxaphene (mg/L)	NNS	-	<0.00050	<0.00096	NS	NS	NS	NS

NS - Not Sampled;





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 11/07/11 Received: 11/08/11 Issued: 11/17/11 09:46

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PUK0544-01 TUC110711 Water

SAMPLE RECEIPT: Samples were received intact, at 6°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis. Results were qualified where the

sample container did not meet the method preservation requirements.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

N1 SM4500-CN: The sample, as received, was not preserved in accordance to the referenced analytical

method.

N1a SM4500-CN: The sample was received with a pH = 9.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

Carlese McCutchem

TestAmerica Phoenix

Carlene McCutcheon Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Wate	r)							
Reporting Units: mg/l								
N-Hexane Extractable (HEM)	EPA 1664A	11K0475	5.0	9.9	1	11/11/2011	11/11/2011	



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0544-01 (TUC110711 - W	vater)							
Reporting Units: mg/l								
Extractable Fuel Hydrocarbons (C10 -	EPA 8015D	11K0355	0.50	1.8	5	11/9/2011	11/9/2011	
C32)								
Surrogate: o-terphenyl (40-145%)				70 %				



Engineering and Environmental Consultants Phoenix

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0544 Received: 11/08/11

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Wat	er)							
Reporting Units: mg/l								
Cyanide, Total	SM 4500CN-E	11K0368	0.0080	ND	1	11/9/2011	11/9/2011	N1, N1a



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Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

MICROBIOLOGICALS

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0544-01 (TUC110711 - Wate	er)							
Reporting Units: MPN/100 ml								
E. Coli - MPN	SM 9221F	11K0585	2	ND	1	11/8/2011	11/10/2011	Н3



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Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

BTEX (EPA 5030B/8021B)

Amaluto	Mathad	Dotah	Reporting Limit	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUK0544-01 (TUC	110711 - Water)							
Reporting Units: ug/l								
Benzene	EPA 8021B	11K0599	0.50	ND	1	11/15/2011	11/15/2011	
Toluene	EPA 8021B	11K0599	1.0	ND	1	11/15/2011	11/15/2011	
Ethylbenzene	EPA 8021B	11K0599	1.0	ND	1	11/15/2011	11/15/2011	
Total Xylenes	EPA 8021B	11K0599	1.5	ND	1	11/15/2011	11/15/2011	
Surrogate: 4-BFB (PID) (70-130%)				112 %				



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454-9303

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Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0544 Received: 11/08/11

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: TUC110711 (PUK0544-01) - V	Vater				
SM 9221F	0	11/07/2011 11:15	11/08/2011 09:45	11/08/2011 14:30	11/10/2011 14:10



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Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0475 Extracted: 11/11/11										
Blank Analyzed: 11/11/2011 (11K0475-I	BLK1)									
N-Hexane Extractable (HEM)	ND	5.0	mg/l							
LCS Analyzed: 11/11/2011 (11K0475-BS	S1)									
N-Hexane Extractable (HEM)	36.2	5.0	mg/l	40.0		90	78-114			
LCS Dup Analyzed: 11/11/2011 (11K04)	75-BSD1)									
N-Hexane Extractable (HEM)	41.2	5.0	mg/l	40.0		103	78-114	13	18	
Matrix Spike Analyzed: 11/11/2011 (111	K0475-MS1)				Source: P	PUK0479-0	03			
N-Hexane Extractable (HEM)	23.0	5.0	mg/l	40.0	4.09	47	78-114			M2



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Project ID: ADOT S.W. Engineering and Environmental Consultants Phoenix

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Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0544 Received: 11/08/11

Attention: John Burton

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510/8015D)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0355 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0355-l	BLK1)									
Extractable Fuel Hydrocarbons (C10 - C32)	ND	0.10	mg/l							
Surrogate: o-terphenyl	0.0838		mg/l	0.100		84	40-145			
LCS Analyzed: 11/09/2011 (11K0355-B	S1)									
Extractable Fuel Hydrocarbons (C10 - C32)	0.330	0.10	mg/l	0.400		83	70-130			
Surrogate: o-terphenyl	0.0860		mg/l	0.100		86	70-130			
LCS Dup Analyzed: 11/09/2011 (11K03	55-BSD1)									
Extractable Fuel Hydrocarbons (C10 - C32)	0.282	0.10	mg/l	0.400		71	70-130	16	20	
Surrogate: o-terphenyl	0.0819		mg/l	0.100		82	70-130			
Matrix Spike Analyzed: 11/10/2011 (11)	K0355-MS1)				Source: P	PUK0572-0	01			
Extractable Fuel Hydrocarbons (C10 - C32)	0.310	0.11	mg/l	0.444	ND	70	50-150			
Surrogate: o-terphenyl	0.0900		mg/l	0.111		81	40-145			
Matrix Spike Dup Analyzed: 11/10/2011	l (11K0355-M	ISD1)			Source: F	PUK0572-0	01			
Extractable Fuel Hydrocarbons (C10 - C32)	0.332	0.11	mg/l	0.444	ND	75	50-150	7	35	
Surrogate: o-terphenyl	0.0891		mg/l	0.111		80	40-145			



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Attention: John Burton

METHOD BLANK/QC DATA

BTEX (EPA 5030B/8021B)

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0599 Extracted: 11/15/11										
Blank Analyzed: 11/15/2011 (11K0599-	BLK1)									
Benzene	ND	0.50	ug/l							
Toluene	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
Total Xylenes	ND	1.5	ug/l							
Surrogate: 4-BFB (PID)	89.8		ug/l	80.0		112	70-130			
LCS Analyzed: 11/15/2011 (11K0599-B	S1)									Q8
Benzene	20.0	0.50	ug/l	20.0		100	70-130			
Toluene	20.6	1.0	ug/l	20.0		103	70-130			
Ethylbenzene	20.9	1.0	ug/l	20.0		104	70-130			
Total Xylenes	62.5	1.5	ug/l	60.0		104	70-130			
Surrogate: 4-BFB (PID)	91.1		ug/l	80.0		114	70-130			
LCS Dup Analyzed: 11/15/2011 (11K05	99-BSD1)									Q8
Benzene	21.7	0.50	ug/l	20.0		108	70-130	8	20	
Toluene	22.4	1.0	ug/l	20.0		112	70-130	8	20	
Ethylbenzene	22.9	1.0	ug/l	20.0		114	70-130	9	20	
Total Xylenes	69.1	1.5	ug/l	60.0		115	70-130	10	20	
Surrogate: 4-BFB (PID)	92.3		ug/l	80.0		115	70-130			

TestAmerica Phoenix



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Sampled: 11/07/11

Engineering and Environmental Consultants Phoenix Project II

Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

Report Number: PUK0544 Received: 11/08/11

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0368 Extracted: 11/09/11										
Blank Analyzed: 11/09/2011 (11K0368-B	LK1)									
Cyanide, Total	ND	0.0080	mg/l							
LCS Analyzed: 11/09/2011 (11K0368-BS	1)									
Cyanide, Total	0.108	0.0080	mg/l	0.100		108	90-110			
LCS Dup Analyzed: 11/09/2011 (11K036	8-BSD1)									
Cyanide, Total	0.100	0.0080	mg/l	0.100		100	90-110	7	20	
Matrix Spike Analyzed: 11/09/2011 (11K	(0368-MS1)				Source: P	UK0225-0)1			
Cyanide, Total	0.100	0.0080	mg/l	0.100	ND	100	80-120			
Matrix Spike Dup Analyzed: 11/09/2011	(11K0368-MS	D1)			Source: P	UK0225-0)1			
Cyanide, Total	0.112	0.0080	mg/l	0.100	ND	112	80-120	11	20	



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Engineering and Environmental Consultants Phoenix

Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Report Number: PUK0544 Received: 11/08/11

Phoenix, AZ 85020 Attention: John Burton

METHOD BLANK/QC DATA

MICROBIOLOGICALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0585 Extracted: 11/08/11										
Duplicate Analyzed: 11/11/2011 (11K05	885-DUP1)				Source: F	PUK0503-0	01			
E. Coli - MPN	23	2	MPN/100 ml		50			74	200	



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Engineering and Environmental Consultants Phoenix Project ID: ADOT S.W.

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0544

Sampled: 11/07/11

Received: 11/08/11

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

H3 Sample was received and analyzed past holding time.

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

N1 See case narrative.

Q8 Insufficient sample received to meet method QC requirements. Batch QC requirements satisfy ADEQ policies

0154.000 and 0155.000.

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference

ADDITIONAL COMMENTS

For Extractable Fuel Hydrocarbons (EFH, DRO, ORO):

Unless otherwise noted, Extractable Fuel Hydrocarbons (EFH, DRO, ORO) are quantitated against a Diesel Fuel Standard.



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Engineering and Environmental Consultants Phoenix

Project ID: ADOT S.W.

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Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0544 Received: 11/08/11

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A	Water		X
EPA 8015D	Water		X
EPA 8021B	Water	X	X
SM 4500CN-E	Water		X
SM 9221F	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

PUKOS44- Revised

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page

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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on uns chain of b Payment for services is due within 30 days from the date of involce. Sample(s) will be disposed of after 30 days.

TestAmerica

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Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

APPENDIX H Monitoring Data for Maintenance Yards and Industrial Facilities

Durango Sign Factory Nogales Maintenance Yard Superior Maintenance Yard Superior Fuel Yard





AZS000018 DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name:				Monitoring Point (Outfall):					
Durango Sign Factory				Stormdrain adjacent to southeast corner of Sign Factory building (202,000 sq. ft = 4.6 ac)					
Facility Address:				Year:					
2104 South 22 nd Avenue, Phoenix, Arizona 85009				2011/2012 Reporting Year – Summer Storm Event					
Monitoring Personnel Name(s):				Date/Time Collected:					
Rick Salcido, EEC				July 12, 2011 at 10:45 am Sample collected from installed Nalgene bottle					
Time Rainfall Began: Duration of Rainfall Event:				Rainfall Amount (inches):					
Approximately 5:00am	O0am Approximately 1.5 hr				0.35 (0.029 feet)				
Runoff Source: Time Elapsed Since Last 0.1 inch Rainfall I				Event: Qualifying Rainfall Event:					
□ Rainfall □ Snowmelt	20 days					∑ YES □ NO			
Estimated Total Volume of Discharge (Include units; gal, ft^3 , etc.): 202,000 $ft^2 \times 0.029$ ft^2 of rain = 5,858 $ft^3 \times 95\%$ runoff = 5,565.10 \underline{ft}^3 (7.4)				48) = 41,627 <u>gallo</u>	ons .	NO DISCHARGE			
Parameter	Quantity or Loading			Quality or Concentr		ration	No Ex	Frequency of	Sample Type
	Average	Maximum	Units	Minimum	Average	Units		Analysis	
Total Aluminum		0.01	Lbs	0.03		mg/L		Once each season	Grab
Total Iron		0.27	Lbs	0.75		mg/L		Once each season	Grab
Total Zinc		0.08	Lbs	0.23		mg/L		Once each season	Grab
Total Nitrate + Nitrite		0.11	Lbs	0.29		mg/L		Once each season	Grab
									



Quality Control Summary SDG: L525637 12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

For: Engineering & Env. Consultants, INC. -AZ
Durango Sign Factory

L525637

Lab SampleID.

Client ID

L525637-01

DURANGO



YOUR LAB OF CHOICE

12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

Quality Control Summary SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ

Project: Durango Sign Factory

July 20, 2011

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Nitrate-Nitrite by Method 353.2

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG545584. The laboratory control sample associated with this sample was within the laboratory control limits.

Sample Duplicate Analysis

For analytical batch WG545584 sample duplicate analysis was performed on sample L525689-02. The relative percent differences were within the method limits.

For analytical batch WG545584 sample duplicate analysis was performed on sample L525476-01. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG545584, matrix spike/matrix spike duplicate analysis was performed on sample L525432-03. The spike recoveries and relative percent differences were within laboratory control limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Suspended Solids by Method 2540D

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG546096. The laboratory control sample associated with this sample was within the laboratory control limits.

Sample Duplicate Analysis

For analytical batch WG546096 sample duplicate analysis was performed on sample L525637-01. The relative percent difference exceeded the method limits for Suspended Solids.

Matrix Spike/Matrix Spike Duplicate

Precision for batch WG546096 was evaluated using the LCS / LCSD. The RPDs were within method limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Hardness, Total (mg/L as CaCO3) by Method 130.1

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG546110. The laboratory control sample associated with this sample was within the laboratory control limits.



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Quality Control Summary SDG: L525637

For: Engineering & Env. Consultants, INC. -AZ

Project: Durango Sign Factory

July 20, 2011

Sample Duplicate Analysis

For analytical batch WG546110 sample duplicate analysis was performed on sample L525630-22. The relative percent differences were within the method limits.

For analytical batch WG546110 sample duplicate analysis was performed on sample L525825-05. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG546110, matrix spike/matrix spike duplicate analysis was performed on sample L525476-01. The spike recoveries and relative percent differences were within laboratory control limits.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Trace Metals by Method 200.7

Laboratory Control Sample

Sample L525637-01 was analyzed in analytical batch WG545428. The laboratory control sample associated with this sample was within the laboratory control limits for all compounds.

Sample Duplicate Analysis

For analytical batch WG545428 sample duplicate analysis was performed on sample L525640-01. The relative percent differences were within the method limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG545428 matrix spike/matrix spike duplicate analysis was performed on sample L525640-01. The high concentration of Aluminum interfered with the ability to make an accurate spike determination for these analytes. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Nancy F. Winters ESC Representative ESC Lab Sciences



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

John Burton
Engineering & Env. Consultants, INC. -AZ
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020

Report Summary

Tuesday July 19, 2011

Report Number: L525637 Samples Received: 07/13/11 Client Project: 308032.07

Description: Durango Sign Factory

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Page 1 of 7

1 of 4 pages



Quality Control Summary SDG: L525637

12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

For: Engineering & Env. Consultants, INC. -AZ
Durango Sign Factory

L525637

Lab SampleID.

Client ID

L525637-01

DURANGO



12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

SAMPLE NUMBERDURANGO

Preparation Date: 7/18/2011 9:05

Customer: Engineering & Env. Consultants, INC. - Project: 308032.07

Source: DURANGO Date Sampled: 7/12/2011 10:45 AM

Location: Durango Sign Factory Sampled By: Phill M
Lab Sample ID: L525637-01 Date Received: 7/13/2011

130.1

Analytic Batch: WG546110 Analysis Date: 7/19/2011 Analysis Time: 9:56

Instrument: LACHAT3 Analyst: 479 Preparation Date: 7/18/2011 9:00

Method: 130.1 Dilution: 1

 CAS NO
 Analyte
 RL mg/l mg/l
 RESULTS mg/l
 FLAG mg/l

 471-34-1
 Hardness, Total (mg/L as CaCO3)
 30
 75

353.2

Analytic Batch: WG545584 Analysis Date: 7/14/2011 Analysis Time: 2:36 PM

Instrument: LACHAT2 Analyst: 239 Preparation Date: 7/14/2011 12:21 Method: 353.2 Dilution: 1

 CAS NO
 Analyte
 RL mg/l mg/l
 RESULTS mg/l
 FLAG

 7727-37-9
 Nitrate-Nitrite
 0.10
 0.29

2540D

Analytic Batch: WG546096 Analysis Date: 7/18/2011 Analysis Time: 9:06

Instrument: BAL Analyst: 036
Method: 2540D Dilution: 1

 CAS NO
 Analyte
 RL mg/l
 RESULTS mg/l
 FLAG mg/l

 SSOLIDS
 Suspended Solids
 1.0
 42
 R8

Comments: 1) Sample results are reported as rounded values.

2) These results are applicable only to the items tested.



12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

SAMPLE NUMBER DURANGO

Customer: Engineering & Env. Consultants, INC. - Project: 308032.07

Source: DURANGO Date Sampled: 7/12/2011 10:45 AM

Location :Durango Sign FactorySampled By :Phill MLab Sample ID :L525637-01Date Received :7/13/2011

200.7

Analytic Batch: WG545428 Analysis Date: 7/14/2011 Analysis Time: 9:50 PM

Instrument: ICP8 Analyst: 429 Preparation Date: 7/13/2011 11:04

Method: 200.7 Dilution: 1

CAS NO	Analyte	RL	RESULTS	FLAG
		mg/l	mg/l	
7429-90-5	Aluminum	0.10	0.78	
7439-89-6	Iron	0.10	0.75	
7440-66-6	Zinc	0.030	0.23	

LEGEND

RL - Reporting Limit

QUALIFIERS

R8 - Sample RPD exceeded the method acceptance limit.

Comments: 1) Sample results are reported as rounded values.

2) These results are applicable only to the items tested.



12065 Lebanon Rd Mt. Juliet, TN 37122 (615) 758-5858 (800) 767-5859 Fax (615) 758-5859 Tax I.D 62-0814289 Est. 1970

Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Hardness, Total (mg/L as CaCO3) by Method 130.1

Project No: 308032.07 Matrix: Water - mg/L
Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG546110

Analysis Date: 7/19/2011 9:56:00 AM Analyst: 479

Instrument ID: LACHAT3 Extraction Date: 7/18/2011

Sample Numbers: L525637-01

Method Blank

Analyte	CAS	PQL	Qualifiers
Hardness		<30.0	_

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Hardness	200	184	92.0	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

Analyte	True Value Found		Recovery %	Control Limits	Qualifiers
Hardness	200	186	93.0	85 - 115	



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Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Hardness, Total (mg/L as CaCO3) by Method 130.1

Project No: 308032.07 Matrix: Water - mg/L
Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG546110

Analysis Date: 7/19/2011 9:56:00 AM Analyst: 479

Instrument ID: LACHAT3 Extraction Date: 7/18/2011

Sample Numbers: L525637-01

Laboratory Control Sample/Laboratory Control Sample Duplicate

			%		%	Control		%	Control	
Analyte	Spike	LCS	Rec	LCSD	Rec	Limits	Qualifier	RPD	Limits	Qualifier
Hardness	200	184	92.0	186	93.0	85-115		1.1	20	_

Sample Duplicate

L525630-22

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Hardness	170	178	4.6	20	

Sample Duplicate

L525825-05

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Hardness	160	160	0.0	20	_



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Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Hardness, Total (mg/L as CaCO3) by Method 130.1

Project No: 308032.07 Matrix: Water - mg/L
Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG546110

Analysis Date: 7/19/2011 9:56:00 AM Analyst: 479

Instrument ID: LACHAT3 Extraction Date: 7/18/2011

Sample Numbers: L525637-01

Matrix Spike/Matrix Spike Duplicate

L525476-01

	Spike			%		%	Control	% Rec	%	Control	RPD
Analyte	Value	Sample	MS	Rec	MSD	Rec	Limits	Qualifier	RPD	Limits	Qual
Hardness	150	98.0	226	85.3	227	86.0	80-120		0.4	20	



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Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Nitrate-Nitrite by Method 353.2

Project No: 308032.07 Matrix: Water - mg/L
Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG545584

Analysis Date: 7/14/2011 2:36:00 PM Analyst: 239

Instrument ID: LACHAT2 Extraction Date: 7/14/2011

Sample Numbers: L525637-01

Method Blank

Analyte	CAS	PQL	Qualifiers
Nitrate-Nitrite		< 0.100	_

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Nitrate-Nitrite	5.00	4.95	99.0	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

	True		Recovery	Control	0 110
Analyte	Value	Found	%	Limits	Qualifiers
Nitrate-Nitrite	5.00	5.02	100	85 - 115	



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Water - mg/L

Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Matrix:

Nitrate-Nitrite by Method 353.2 Test:

308032.07 Project No:

TN00003 Project: Durango Sign Factory EPA ID: Analytic Batch: WG545584

Collection Date: 7/12/2011

7/14/2011 2:36:00 PM Analysis Date: Analyst: 239

Instrument ID: Extraction Date: 7/14/2011 LACHAT2

Sample Numbers: L525637-01

Laboratory Control Sample/Laboratory Control Sample Duplicate

	·	•	%	•	%	Control	•	%	Control	
Analyte	Spike	LCS	Rec	LCSD	Rec	Limits	Qualifier R	RPD	Limits	Qualifier
Nitrate-Nitrite	5.00	4.95	99.0	5.02	100	85-115		1.4	20	_

Sample Duplicate

L525689-02

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Nitrate-Nitrite	0.0000	0.0000			_

Sample Duplicate

L525476-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Nitrate-Nitrite	0.940	0.942	0.2	20	_



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Water - mg/L

Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Matrix:

Test: Nitrate-Nitrite by Method 353.2

Project No: 308032.07

Project: Durango Sign Factory EPA ID: TN00003 Collection Date: 7/12/2011 Analytic Batch: WG545584

Analysis Date: 7/14/2011 2:36:00 PM Analyst: 239

Instrument ID: LACHAT2 Extraction Date: 7/14/2011

Sample Numbers: L525637-01

Matrix Spike/Matrix Spike Duplicate

L525432-03

	Spike			%		%	Control	% Rec	%	Control	RPD	
Analyte	Value S	Sample	MS	Rec	MSD	Rec	Limits	Qualifier	RPD	Limits	Qual	
Nitrate-Nitrite	5.00	0.0000	5.03	101	5.01	100	80-120		0.4	20		-



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Water - mg/L

Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Suspended Solids by Method 2540D

Project No: 308032.07 Matrix:
Project: Durango Sign Factory EPA ID:

Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG546096

Analysis Date: 7/18/2011 9:06:00 AM Analyst: 036

Instrument ID: BAL Extraction Date: 7/18/2011

Sample Numbers: L525637-01

Method Blank

Analyte	CAS	PQL	Qualifiers
Suspended Solids		<1.00	_

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Suspended Solids	773	784	101	85 - 115	

Laboratory Control Sample Duplicate (LCSD)

	True		Recovery	Control	
Analyte	Value	Found	%	Limits	Qualifiers
Suspended Solids	773	780	101	85 - 115	



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Water - mg/L

Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Matrix:

Suspended Solids by Method 2540D Test:

Project No: 308032.07

Durango Sign Factory TN00003 Project: EPA ID: Collection Date: 7/12/2011 Analytic Batch: WG546096

7/18/2011 9:06:00 AM Analysis Date: Analyst:

036 Instrument ID: Extraction Date: 7/18/2011 **BAL**

Sample Numbers: L525637-01

Laboratory Control Sample/Laboratory Control Sample Duplicate

	·	•	%	•	%	Control	•	%	Control	
Analyte	Spike	LCS	Rec	LCSD	Rec	Limits	Qualifier	RPD	Limits	Qualifier
Suspended Solids	773	784	101	780	101	85-115		0.5	20	

Sample Duplicate

L525637-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Suspended Solids	42.0	45.5	8.0	5	R8



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Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Trace Metals by Method 200.7

Project No: 308032.07 Matrix: Water - mg/L
Project: Durango Sign Factory EPA ID: TN00003
Collection Date: 7/12/2011 Analytic Batch: WG545428

Analysis Date: 7/14/2011 Analyst: 429

Instrument ID: ICP8 Extraction Date: 7/13/2011

Sample Numbers: L525637-01

Method Blank

Analyte	CAS	PQL	Qualifiers
Aluminum	7429-90-5	< 0.100	
Iron	7439-89-6	< 0.100	
Zinc	7440-66-6	< 0.0300	

Laboratory Control Sample (LCS)

Analyte	True Value	Found	Recovery %	Control Limits	Qualifiers
Aluminum	1.00	0.904	90.4	85 - 115	_
Iron	1.00	1.04	104	85 - 115	
Zinc	1.00	0.930	93.0	85 - 115	



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Quality Control Summary SDG: L525637

Engineering & Env. Consultants, INC. -AZ

Test: Trace Metals by Method 200.7

Project No: 308032.07 Matrix: Water - mg/L Project: Durango Sign Factory EPA ID: TN00003

Collection Date: 7/12/2011

Analytic Batch: WG545428

Analysis Date: 7/14/2011 Analyst: 429

Instrument ID: ICP8 Extraction Date: 7/13/2011

Sample Numbers: L525637-01

Sample Duplicate

L525640-01

Name	Sample Results	Duplic Results	%RPD	Limit	Qualifiers
Aluminum	8.26	8.34	1.0	20	
Iron	0.160	0.171	6.6	20	
Zinc	0.194	0.190	2.1	20	

Matrix Spike/Matrix Spike Duplicate

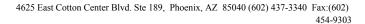
			I	L52564	40-01						
	Spike			%		%	Control	% Rec	%	Control	RPD
Analyte	Value	Sample	MS	Rec	MSD	Rec	Limits	Qualifier	RPD	Limits	Qual
Aluminum	1.00	8.34	9.97	163	10.0	166	75-125	M3	0.3	20	
Iron	1.00	0.171	1.15	97.9	1.17	99.9	75-125		1.7	20	
Zinc	1.00	0.190	1.11	92.0	1.13	94.0	75-125		1.8	20	



AZS000018 DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name:				Monitoring Po	, ,						
Durango Sign Factory				Stormdrain a	djacent to s	outheast cor	ner of Sig	gn Factory building	(202,000 sq. ft = 4.6 ac)		
Facility Address:				Year:							
2104 South 22 nd Avenue, I	Phoenix, Ariz	ona 85009		2011/2012 R		ear – Winter	Storm E	vent			
Monitoring Personnel Name(s	s):			Date/Time Col							
Phillip McNamara, EEC				Nov. 7, 2011	at 10:25 ar	m Sample collected from installed Nalgene bottle					
Time Rainfall Began:	Duration of R	ainfall Event:				Rainfall Amount (inches):					
Approximately 5:00am	Approximately	2 hrs				0.24 (0.02	feet)				
Runoff Source:	Time Elapsed	Since Last 0.1	inch Rainfall	Event:		Qualifying R	ainfall Ev	ent:			
□ Rainfall □ Snowmelt	20 days						\boxtimes	YES NO			
Estimated Total Volume of Di $202,000 \text{ ft}^2 \text{ X } 0.02 \text{ ft}^2 \text{ of rain} =$	scharge (Includ 4,040 ft ³ X 95%	le units; gal, ft ³ % runoff =3,83	³ , etc.): 8.10 <u>ft³</u> (7.48)	7.48) = 27,708 gallons NO DISCHARGE							
Parameter	Qua	ntity or Loadi	ng	Quality or Concentra		ation	No Ex	Frequency of	Sample Type		
	Average	Maximum	Units	Minimum	Average	Units		Analysis			
Total Aluminum		0.57	Lbs	2.3		mg/L		Once each season	Grab		
Total Iron		0.62	Lbs	2.5		mg/L		Once each season	Grab		
Total Zinc		0.10	Lbs	0.4		mg/L		Once each season	Grab		
Total Nitrate + Nitrite		0.30	Lbs	1.20		mg/L		Once each season	Grab		





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: 308032.07

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 11/07/11 Received: 11/07/11 Issued: 11/17/11 11:58

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID CLIENT ID MATRIX
PUK0476-01 DSF-1/2 Water

SAMPLE RECEIPT: Samples were received intact, at 6°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica

Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Carlere McCatchem

Carlene McCutcheon Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0476

Sampled: 11/07/11

Received: 11/07/11

Attention: John Burton

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0476-01 (DSF-1/2 - Water)								
Reporting Units: mg/l								
Aluminum	EPA 6010B	11K0320	0.20	2.3	1	11/8/2011	11/10/2011	
Calcium	EPA 6010B	11K0320	2.0	19	1	11/8/2011	11/10/2011	
Hardness, Total	SM2340B	[CALC]	13	47	1	11/8/2011	11/10/2011	
Iron	EPA 6010B	11K0320	0.050	2.5	1	11/8/2011	11/10/2011	
Magnesium	EPA 6010B	11K0320	2.0	ND	1	11/8/2011	11/10/2011	
Zinc	EPA 6010B	11K0320	0.050	0.40	1	11/8/2011	11/10/2011	



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Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0476 Received: 11/07/11

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUK0476-01 (DSF-1/2 - Water)								
Reporting Units: mg/l								
Nitrate/Nitrite-N	CALC	11K0639	0.40	1.2	1	11/7/2011	11/8/2011	
Nitrate-N	EPA 300.0	11K0296	0.20	1.2	1	11/7/2011	11/8/2011	
Nitrite-N	EPA 300.0	11K0296	0.20	ND	1	11/7/2011	11/8/2011	



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0476 Received: 11/07/11

Attention: John Burton

SHORT HOLD TIME DETAIL REPORT

Sample ID: DSF-1/2 (PUK0476-01) - Water	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
CALC	2	11/07/2011 10:25	11/07/2011 11:04	11/07/2011 18:00	11/08/2011 08:42
EPA 300.0	2	11/07/2011 10:25	11/07/2011 11:04	11/07/2011 18:00	11/08/2011 08:42



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0476 Received: 11/07/11

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
•	Result	Limit	Cilits	Level	Result	/UKEC	Limits	KI D	Limit	Quanticis
Batch: 11K0320 Extracted: 11/08/11										
Blank Analyzed: 11/10/2011 (11K0320-F	BLK1)									
Aluminum	ND	0.20	mg/l							
Calcium	ND	2.0	mg/l							
Iron	ND	0.050	mg/l							
Magnesium	ND	2.0	mg/l							
Zinc	ND	0.050	mg/l							
LCS Analyzed: 11/10/2011 (11K0320-BS	81)									
Aluminum	1.89	0.20	mg/l	2.00		94	88-114			
Calcium	20.4	2.0	mg/l	21.0		97	88-109			
Iron	0.906	0.050	mg/l	1.00		91	82-109			
Magnesium	20.1	2.0	mg/l	21.0		96	90-110			
Zinc	1.01	0.050	mg/l	1.00		101	89-116			
LCS Dup Analyzed: 11/10/2011 (11K032	20-BSD1)									
Aluminum	1.92	0.20	mg/l	2.00		96	88-114	2	20	
Calcium	20.5	2.0	mg/l	21.0		98	88-109	0.7	20	
Iron	0.927	0.050	mg/l	1.00		93	82-109	2	20	
Magnesium	20.2	2.0	mg/l	21.0		96	90-110	0.3	20	
Zinc	1.03	0.050	mg/l	1.00		103	89-116	2	20	
Matrix Spike Analyzed: 11/10/2011 (11F	K0320-MS1)				Source: P	UK0166-0	01			
Aluminum	2.58	0.20	mg/l	2.00	0.251	116	75-125			
Calcium	150	2.0	mg/l	21.0	130	97	75-125			
Iron	2.03	0.050	mg/l	1.00	1.12	92	75-125			
Magnesium	94.0	2.0	mg/l	21.0	73.6	97	75-125			
Zinc	1.79	0.050	mg/l	1.00	0.849	94	75-125			
Matrix Spike Dup Analyzed: 11/10/2011	(11K0320-N	(ISD1)			Source: P	UK0166-0	01			
Aluminum	2.30	0.20	mg/l	2.00	0.251	103	75-125	11	20	
Calcium	144	2.0	mg/l	21.0	130	68	75-125	4	20	M2
Iron	1.98	0.050	mg/l	1.00	1.12	86	75-125	3	20	
Magnesium	90.6	2.0	mg/l	21.0	73.6	81	75-125	4	20	
Zinc	1.77	0.050	mg/l	1.00	0.849	92	75-125	1	20	

TestAmerica Phoenix

Carlene McCutcheon Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Project ID: 308032.07 Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 11/07/11 Phoenix, AZ 85020 Report Number: PUK0476 Received: 11/07/11

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11K0296 Extracted: 11/07/11										
Blank Analyzed: 11/08/2011 (11K0296-B	LK1)									
Nitrate-N	ND	0.20	mg/l							
Nitrite-N	ND	0.20	mg/l							
LCS Analyzed: 11/08/2011 (11K0296-BS	1)									
Nitrate-N	4.10	0.20	mg/l	4.00		102	90-110			
Nitrite-N	4.06	0.20	mg/l	4.00		102	90-110			
LCS Dup Analyzed: 11/08/2011 (11K029	6-BSD1)									
Nitrate-N	4.10	0.20	mg/l	4.00		102	90-110	0.05	15	
Nitrite-N	3.99	0.20	mg/l	4.00		100	90-110	2	15	
Matrix Spike Analyzed: 11/08/2011 (11K	(0296-MS1)				Source: P	UK0485-0	01			
Nitrate-N	6.48	0.20	mg/l	4.00	2.12	109	80-120			
Nitrite-N	4.17	0.20	mg/l	4.00	ND	104	80-120			
Matrix Spike Dup Analyzed: 11/08/2011	(11K0296-M	SD1)			Source: F	UK0485-0	01			
Nitrate-N	6.52	0.20	mg/l	4.00	2.12	110	80-120	0.6	15	
Nitrite-N	4.28	0.20	mg/l	4.00	ND	107	80-120	3	15	



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0476

Sampled: 11/07/11

Received: 11/07/11

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

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

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: 308032.07

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUK0476

Sampled: 11/07/11

Received: 11/07/11

Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
CALC	Water		
EPA 300.0	Water		X
EPA 6010B	Water		X
SM2340B	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

TestAmerico

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

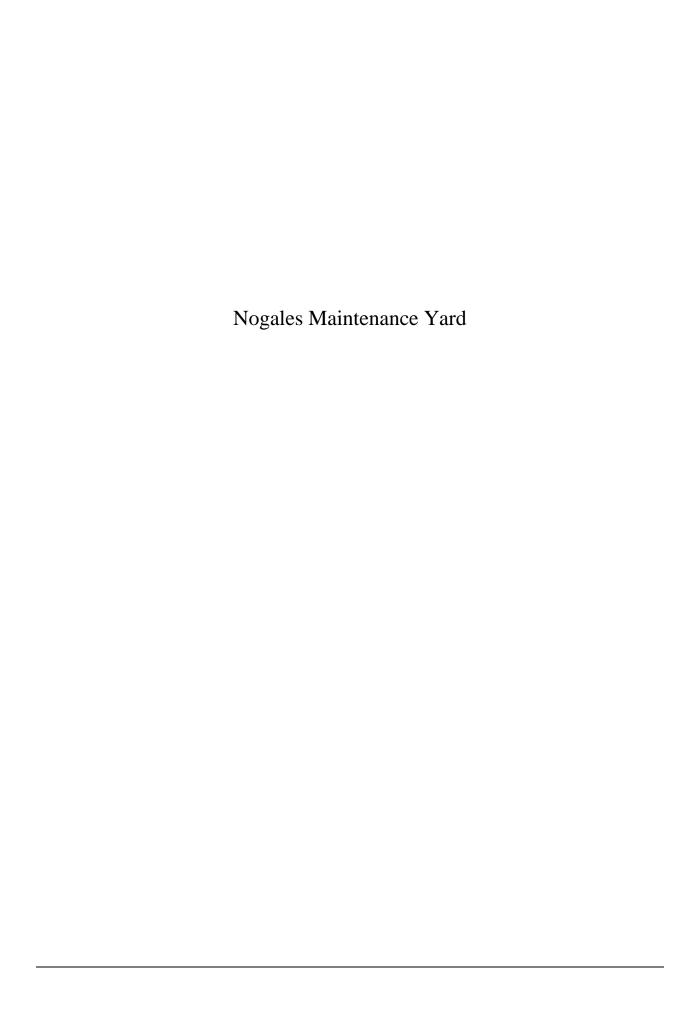
CHAIN OF CUSTODY FORM

M Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803

] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Special Instructions PUKO476-01 72 hours 5 days normai ou ice Turnaround Time: (Check) Sample Integrity: (Check) same day 24 hours 48 hours Analysis Required intact 55047177H Vitaite Nitrogen Date / Time: Date/Time: 7342 Recoverable Sampling Sampling Preservatives Date Received'in Lab By: AND PROPERTY. Nitric Phone Number: (4.2) 248- 7年申記 Fax Number: (602) 248-7857 Received By: Received By: 300 Project/PO Number: 11-7-11 11-7-11 HOH Cont. Date / Time: Date/Time Container Type Stom L Plastic Soom to Sample Matrix Project Manager: John Burton Client Name / Address: FEC. 7878 N. 16TH 57, 57e 140 Sampler: Phillip McNamara Sample Description Phaenix,Az BSOZO Relinquished By: Rehmynished By: Relinquished By: DSF-DSF

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.



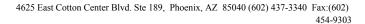


AZS000018 DISCHARGE MONITORING REPORT (DMR)

(Complete a separate form for each monitoring point)

Facility Name:				Monitoring Po					
Nogales Maintenance Yard				Low point ac	ljacent to fa	acility gate		Yard is 108,90	0 sq ft (2.5 acres)
Facility Address:		0.7000		Year:		G	G	.	
2104 South 22 nd Avenue, Pl		ona 85009		2011/2012 R		ear – Summe	er Storm	Event	
Monitoring Personnel Name(s)	:			Date/Time Col					X 1 1 1
Tom Ross, EEC				July 13, 201	1 at 11:45 a			e collected from installed	Nalgene bottle
Time Rainfall Began:		Rainfall Event	:			Rainfall Am	`	es):	
Approximately 7:00am	Approximate	ly 2 hr				0.13 (0.01	feet)		
Runoff Source:	Time Elapse	ed Since Last 0	.1 inch Rainfa	all Event:		Qualifying F			
Rainfall Snowmelt	18 days						\boxtimes	YES NO	
Estimated Total Volume of Dis 108,900 ft ² X 0.01 ft ² of rain = 1	charge (Includ 1,089 ft ³ X 95%	le units; gal, ft % runoff = 1,0	³ , etc.): 35 <u>ft³</u> (7.48) =	.48) = 7,738 gallons NO DISCHARGE					
Parameter	Qu	antity or Load	ing	Quality	Quality or Concentration No Ex			Frequency of	Sample Type
	Average	Maximum	Units	Minimum	Average	Units		Analysis	
Total Dissolved Solids		19.10	Lbs	260		mg/L		Once each season	Grab
Total Suspended Solids		56.56	Lbs	770		mg/L		Once each season	Grab
Total Petroleum									~ .
Hydrocarbons		0.02	Lbs	0.23		mg/L		Once each season	Grab
Total Copper		0.01	Lbs	0.10		mg/L		Once each season	Grab
Ammonia		0.04	Lbs	0.50		mg/L		Once each season	Grab
E. Coli*		0	Lbs	0	0 CFU Once each sea			Once each season	Grab

^{*}Insufficient sample volume for analyses





LABORATORY REPORT

Prepared For: Engineering and Environmental Consultants Phoenix Project: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Attention: John Burton

Sampled: 07/13/11 Received: 07/14/11 Issued: 07/25/11 08:36

NELAP #01109CA Arizona DHS#AZ0728

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY IDCLIENT IDMATRIXPUG0892-01NOGALES-SW-1WaterPUG0892-02NOGALES-SW-1Water

SAMPLE RECEIPT: Samples were received intact, at 1°C, on ice and with chain of custody documentation.

HOLDING TIMES: Not all holding times were met. Results were qualified where the sample analysis did not occur within

method specified holding time requirements.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

Reviewed By:

TestAmerica Phoenix

Carlere McCatchem

Carlene McCutcheon Project Manager



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

Engineering and Environmental Consultants Phoenix Project ID: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

Attention: John Burton

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-S	W-1 - Water)							
Reporting Units: mg/l								
N-Hexane Extractable Silica Gel Treated	EPA 1664A SGT	11G0677	10	ND	1	7/20/2011	7/20/2011	
(SGT)								



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Engineering and Environmental Consultants Phoenix Project ID: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

Attention: John Burton

TOTAL METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-SW-1	- Water)							
Reporting Units: mg/l								
Calcium	EPA 200.7	11G0566	2.0	42	1	7/17/2011	7/18/2011	
Hardness, Total	SM2340B	[CALC]	13	130	1	7/17/2011	7/18/2011	
Magnesium	EPA 200.7	11G0566	2.0	5.0	1	7/17/2011	7/18/2011	



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Engineering and Environmental Consultants Phoenix

Project ID: [none]

7878 N. 16th Street, Suite 140

Sampled: 07/13/11 Report Number: PUG0892 Received: 07/14/11

Attention: John Burton

Phoenix, AZ 85020

DISSOLVED METALS

			Reporting	Sample	Dilution	Date	Date	Data
Analyte	Method	Batch	Limit	Result	Factor	Extracted	Analyzed	Qualifiers
Sample ID: PUG0892-02 (NOGALES-SW-1	- Water)							
Reporting Units: mg/l								
Copper	EPA 200.7	11G0660	0.010	ND	1	7/19/2011	7/20/2011	



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Engineering and Environmental Consultants Phoenix Project ID: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

Attention: John Burton

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PUG0892-01 (NOGALES-SW	-1 - Water)							
Reporting Units: mg/l								
Ammonia-N	SM 4500NH3-D	11G0590	0.50	ND	1	7/18/2011	7/18/2011	
Total Dissolved Solids	SM 2540C	11G0627	20	260	1	7/19/2011	7/19/2011	
Total Suspended Solids	SM 2540D	11G0629	20	770	2	7/19/2011	7/19/2011	



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Project ID: [none] Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 07/13/11 Phoenix, AZ 85020 Report Number: PUG0892 Received: 07/14/11

Attention: John Burton

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11G0677 Extracted: 07/20/11										
Blank Analyzed: 07/20/2011 (11G0677-	BLK1)									
N-Hexane Extractable Silica Gel Treated (SGT)	ND	10	mg/l							
LCS Analyzed: 07/20/2011 (11G0677-B	S1)									
N-Hexane Extractable Silica Gel Treated (SGT)	18.4	10	mg/l	20.0		92	64-132			
LCS Dup Analyzed: 07/20/2011 (11G06	77-BSD1)									
N-Hexane Extractable Silica Gel Treated (SGT)	17.5	10	mg/l	20.0		87	64-132	5	34	
Matrix Spike Analyzed: 07/20/2011 (110	G0677-MS1)				Source: I	PUG0872-0	01			
N-Hexane Extractable Silica Gel Treated (SGT)	16.1	10	mg/l	20.0	ND	81	64-132			



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Project ID: [none] Engineering and Environmental Consultants Phoenix

7878 N. 16th Street, Suite 140

Sampled: 07/13/11 Phoenix, AZ 85020 Report Number: PUG0892 Received: 07/14/11

Attention: John Burton

METHOD BLANK/QC DATA

TOTAL METALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11G0566 Extracted: 07/17/11										
Blank Analyzed: 07/18/2011 (11G0566-B	LK1)									
Calcium	ND	2.0	mg/l							
Magnesium	ND	2.0	mg/l							
LCS Analyzed: 07/18/2011 (11G0566-BS	1)									
Calcium	22.1	2.0	mg/l	21.0		105	85-115			
Magnesium	20.9	2.0	mg/l	21.0		99	85-115			
LCS Dup Analyzed: 07/18/2011 (11G056	6-BSD1)									
Calcium	21.8	2.0	mg/l	21.0		104	85-115	1	20	
Magnesium	20.8	2.0	mg/l	21.0		99	85-115	0.4	20	
Matrix Spike Analyzed: 07/18/2011 (11G	0566-MS1)				Source: P	UG0883-0	01			
Calcium	48.4	2.0	mg/l	21.0	25.1	111	75-125			
Magnesium	23.1	2.0	mg/l	21.0	1.64	102	75-125			
Matrix Spike Analyzed: 07/18/2011 (11G	0566-MS2)				Source: P	UG0884-0	01			
Calcium	161	2.0	mg/l	21.0	144	82	75-125			
Magnesium	47.7	2.0	mg/l	21.0	27.1	98	75-125			
Matrix Spike Dup Analyzed: 07/18/2011	(11G0566-M	SD1)			Source: P	UG0883-0	01			
Calcium	47.1	2.0	mg/l	21.0	25.1	105	75-125	3	20	
Magnesium	22.6	2.0	mg/l	21.0	1.64	100	75-125	2	20	
Matrix Spike Dup Analyzed: 07/18/2011	(11G0566-M	SD2)			Source: P	UG0884-0	01			
Calcium	161	2.0	mg/l	21.0	144	81	75-125	0.04	20	
Magnesium	47.6	2.0	mg/l	21.0	27.1	98	75-125	0.3	20	

TestAmerica Phoenix



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix

Project ID: [none]

7878 N. 16th Street, Suite 140

Report Number: PUG0892 Sampled: 07/13/11
Received: 07/14/11

Phoenix, AZ 85020 Attention: John Burton

METHOD BLANK/QC DATA

DISSOLVED METALS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11G0660 Extracted: 07/19/11										
Blank Analyzed: 07/20/2011 (11G0660-E	BLK1)									
Copper	ND	0.010	mg/l							
Blank Analyzed: 07/20/2011 (11G0660-E	BLK2)									
Copper	ND	0.010	mg/l							
LCS Analyzed: 07/20/2011 (11G0660-BS	S1)									
Copper	1.01	0.010	mg/l	1.00		101	85-115			
LCS Dup Analyzed: 07/20/2011 (11G066	60-BSD1)									
Copper	1.02	0.010	mg/l	1.00		102	85-115	0.6	20	
Matrix Spike Analyzed: 07/20/2011 (110	G0660-MS1)				Source: I	PUG1008-	02			
Copper	1.01	0.010	mg/l	1.00	ND	101	75-125			
Matrix Spike Dup Analyzed: 07/20/2011	(11G0660-N	MSD1)			Source: I	PUG1008-	02			
Copper	1.02	0.010	mg/l	1.00	ND	102	75-125	2	20	



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Sampled: 07/13/11

Engineering and Environmental Consultants Phoenix

Project ID: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020 Report Number: PUG0892 Received: 07/14/11

Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

	D 1/2	Reporting	T T •4	Spike	Source	A/ DEC	%REC	DDD	RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11G0590 Extracted: 07/18/11										
Blank Analyzed: 07/18/2011 (11G0590-B	LK1)									
Ammonia-N	ND	0.50	mg/l							
LCS Analyzed: 07/18/2011 (11G0590-BS	1)									
Ammonia-N	20.6	0.50	mg/l	25.0		82	80-120			
LCS Dup Analyzed: 07/18/2011 (11G059	n PSD1)									
Ammonia-N	24.8	0.50	mg/l	25.0		99	80-120	18	20	
	0500 MC1)		C		C D	TICAGOA A	0.1			
Matrix Spike Analyzed: 07/18/2011 (11G Ammonia-N	19.2	0.50	mg/l	25.0	ND	OG0880-0 77	80-120			M2
			g, 1							.,
Matrix Spike Dup Analyzed: 07/18/2011	`	,	/1			'UG0880-			20	1.02
Ammonia-N	18.4	0.50	mg/l	25.0	ND	74	80-120	4	20	M2
Batch: 11G0627 Extracted: 07/19/11										
Blank Analyzed: 07/19/2011 (11G0627-B	I I/1)									
Total Dissolved Solids	ND	20	mg/l							
			8							
LCS Analyzed: 07/19/2011 (11G0627-BS	,	20		1000		0.6	00.115			
Total Dissolved Solids	962	20	mg/l	1000		96	80-115			
LCS Dup Analyzed: 07/19/2011 (11G062	7-BSD1)									
Total Dissolved Solids	944	20	mg/l	1000		94	80-115	2	10	
Duplicate Analyzed: 07/19/2011 (11G062	7-DUP1)				Source: P	UG0706-0	01			
Total Dissolved Solids	1080	20	mg/l		1080			0.2	10	

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Engineering and Environmental Consultants Phoenix

Project ID: [none]

7878 N. 16th Street, Suite 140

Sampled: 07/13/11 Report Number: PUG0892 Received: 07/14/11

Phoenix, AZ 85020 Attention: John Burton

METHOD BLANK/QC DATA

INORGANICS

		Reporting		Spike	Source		%REC		RPD	Data
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch: 11G0627 Extracted: 07/19/11										
Duplicate Analyzed: 07/19/2011 (11G062	27-DUP2)				Source: P	UG0789-1	15			
Total Dissolved Solids	1870	20	mg/l		1880			0.7	10	
Batch: 11G0629 Extracted: 07/19/11										
Blank Analyzed: 07/19/2011 (11G0629-F	BLK1)									
Total Suspended Solids	ND	10	mg/l							
LCS Analyzed: 07/19/2011 (11G0629-BS	S1)									
Total Suspended Solids	198	10	mg/l	200		99	90-110			
LCS Dup Analyzed: 07/19/2011 (11G062	29-BSD1)									
Total Suspended Solids	195	10	mg/l	200		98	90-110	2	10	
Duplicate Analyzed: 07/19/2011 (11G06)	29-DUP1)				Source: P	UG0809-0	01			
Total Suspended Solids	444	40	mg/l		468			5	10	Н3
Duplicate Analyzed: 07/19/2011 (11G06)	29-DUP2)				Source: P	UG0814-0	01			
Total Suspended Solids	658	29	mg/l		652			0.9	10	



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Engineering and Environmental Consultants Phoenix Project ID: [none]

7878 N. 16th Street, Suite 140

Phoenix, AZ 85020

Report Number: PUG0892

Sampled: 07/13/11

Received: 07/14/11

Attention: John Burton

DATA QUALIFIERS AND DEFINITIONS

H3 Sample was received and analyzed past holding time.

M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable.ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

RPD Relative Percent Difference



4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602)

Received: 07/14/11

Engineering and Environmental Consultants Phoenix Project ID: [none]

7878 N. 16th Street, Suite 140 Sampled: 07/13/11

Report Number: PUG0892

Phoenix, AZ 85020 Attention: John Burton

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A SGT	Water		X
EPA 200.7	Water		X
SM 2540C	Water		X
SM 2540D	Water		X
SM 4500NH3-D	Water		X
SM2340B	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

RESTAMENT CO

CHAIN OF CUSTODY FORM

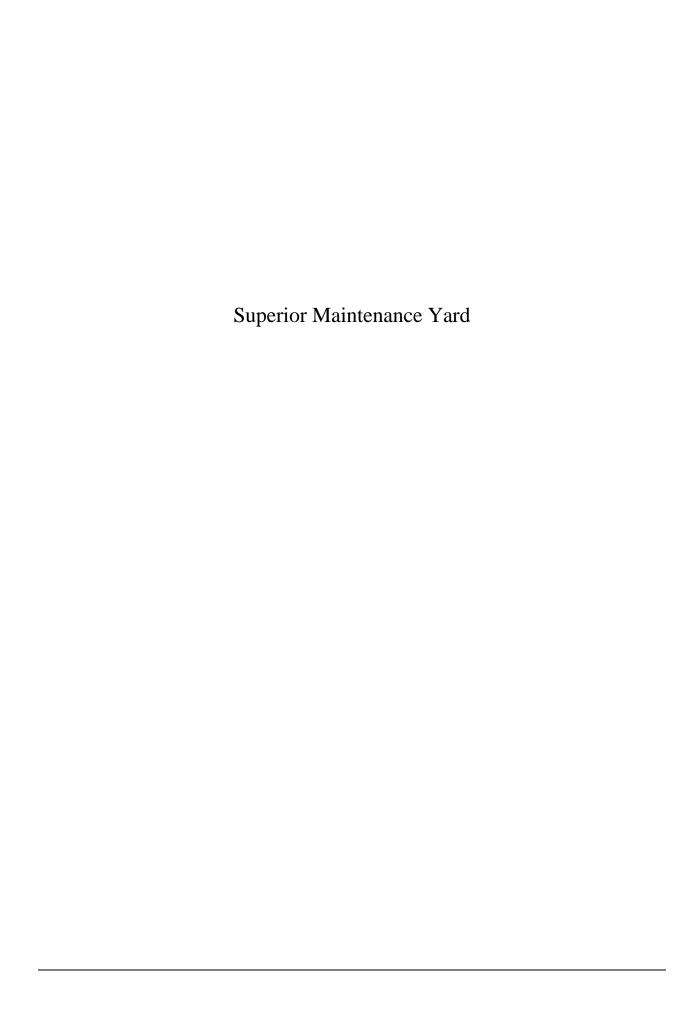
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	f Date/Time:		Date / Time:	11/5/1	Date / Time:												7			}	9 C o	lea		s, NV 89119 (70	enix, AZ 85040 5705 (520) 80
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intact	Sample Integrity: (Check)	48 hours	24 hours	same day	Turnaround Time:	The state of the s	Variation of the state of the s															wanner	Analysis Required		X (602) 454-9303)7-3803
on ice 1.7"		normal	5 days	72 hours	(Check)	WWW.commings.	- A THE STREET CONTRACTOR OF THE STREET CONTRA	The state of the s	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		MANUTATION OF THE PROPERTY OF						NG0892-01, 02	Special Instructions					Table Indiana	Page / of /	•

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days. - Jane



Facility Name:				Monitoring Po								
Nogales Maintenance Yard				Low point ac	ljacent to fa	cility gate		Yard is 108,90	0 sq ft (2.5 acres)			
Facility Address:		0.7000		Year:			~ -					
2104 South 22 nd Avenue, Ph		ona 85009		2011/2012 R		ear – Winter	Storm Ev	vent				
Monitoring Personnel Name(s):	•			Date/Time Col	lected:			Tu a	1 for on al			
Tom Ross, EEC				Dec. 1, 2011				Insufficient sample vo	iume for analyses			
Time Rainfall Began:		Rainfall Event	:			Rainfall Am	,	es):				
Unknown	Unknown					0.1 (0.008 ft)						
Runoff Source:	Time Elapse	ed Since Last 0.	.1 inch Rainfa	ll Event:		Qualifying Rainfall Event:						
□ Rainfall □ Snowmelt	Unknown							YES NO				
Estimated Total Volume of Disc	charge (Inclu	de units; gal, ft	³, etc.):			NO DISCHA	DCE [
$108,900 \text{ ft}^2 \text{ X } 0.008 \text{ ft}^2 \text{ of rain} =$	871 ft ³ X 95%	6 runoff = 828	$\underline{\mathbf{ft}^3}$ (7.48) = 6,	193 gallons		NO DISCHA	KGE _					
Parameter	Qu	antity or Loadi	ing	Quality	or Concentr	ation	No Ex	Frequency of	Sample Type			
	Average	Maximum	Units	Minimum	NO EX Analysis							
	Average	Maxilliulli	Omts	Millimum	Average	Units						
	Average				Average				~ .			
Total Dissolved Solids*	Average	0	Lbs	0	Average	mg/L		Once each season	Grab			
	Average				Average	mg/L		Once each season Once each season	Grab Grab			
Total Dissolved Solids* Total Suspended Solids* Total Petroleum	Average	0	Lbs	0	Average							
Total Suspended Solids*	Average	0	Lbs	0	Average	mg/L						
Total Suspended Solids* Total Petroleum	Average	0	Lbs Lbs	0	Average	mg/L		Once each season	Grab			
Total Suspended Solids* Total Petroleum Hydrocarbons*	Average	0 0	Lbs Lbs Lbs	0 0	Average	mg/L mg/L		Once each season Once each season	Grab Grab			
Total Suspended Solids* Total Petroleum Hydrocarbons* Total Copper*	Average	0 0 0	Lbs Lbs Lbs Lbs	0 0 0	Average	mg/L mg/L mg/L		Once each season Once each season Once each season	Grab Grab Grab			
Total Suspended Solids* Total Petroleum Hydrocarbons* Total Copper* Ammonia*	Average	0 0 0	Lbs Lbs Lbs Lbs Lbs	0 0 0 0	Average	mg/L mg/L mg/L mg/L		Once each season Once each season Once each season Once each season	Grab Grab Grab			
Total Suspended Solids* Total Petroleum Hydrocarbons* Total Copper* Ammonia*	Average	0 0 0	Lbs Lbs Lbs Lbs Lbs	0 0 0 0	Average	mg/L mg/L mg/L mg/L		Once each season Once each season Once each season Once each season	Grab Grab Grab			
Total Suspended Solids* Total Petroleum Hydrocarbons* Total Copper* Ammonia*	Average	0 0 0	Lbs Lbs Lbs Lbs Lbs	0 0 0 0	Average	mg/L mg/L mg/L mg/L		Once each season Once each season Once each season Once each season	Grab Grab Grab			

^{*}Insufficient sample volume for analyses





Facility Name:				Monitoring Po							
Superior Maintenance Yard				Low point at	southwest	corner of yar	rd	Yard is 41	,818 sq ft (0.96 acres)		
Facility Address:	0.5050			Year:		G	a				
951 Main St., Superior, AZ				2011/2012 R		ear – Summe	er Storm I	Event			
Monitoring Personnel Name(s):	•			Date/Time Col	llected:		т	CC: 1	1 6 1		
Gary Hoffmann, EEC				July 11, 2011				nsufficient sample vo	olume for analyses		
Time Rainfall Began:		Rainfall Event	:			Rainfall Am	ount (inch				
Unknown	Unknown					0.1		Nalgene bottles installe	d at SW corner of yard		
Runoff Source:	Time Elapse	ed Since Last 0.	1 inch Rainfa	ll Event:		Qualifying R					
	Unknown					⊠ YES □ NO					
Estimated Total Volume of Disc 41,818 ft ² X 0.008 ft ² of rain = 3	charge (Include 35 ft ³ X 95%	de units; gal, ft runoff = 318 <u>f</u>	$\frac{3}{4}$, etc.): $\frac{1}{4}$ (7.48) = 2,3	377 <u>gallons</u>		NO DISCHA	ARGE [
Parameter	Qu	antity or Load	ing	Quality	or Concentr	ation	No Ex	Frequency of	Sample Type		
	Average	Maximum	Units	Minimum	Average	Units		Analysis			
T-4-1 Di			T b	0		/T		0	C1		
Total Dissolved Solids*		0	Lbs	0		mg/L		Once each season	Grab		
Total Suspended Solids*		0	Lbs	0		mg/L		Once each season	Grab		
Total Petroleum											
Hydrocarbons*		0	Lbs	0		mg/L		Once each season	Grab		
Total Copper*		0	Lbs	0		mg/L		Once each season	Grab		

^{*}Insufficient sample volume for analyses



Facility Name:				Monitoring Po	int (Outfall):	:					
Superior Maintenance Yard				Low point at	southwest	corner of yar	rd	Yard is 41	,818 sq ft (0.96 acres)		
Facility Address:				Year:							
951 Main St., Superior, AZ				2011/2012 R		ear – Winter	Storm E	vent			
Monitoring Personnel Name(s) :	•			Date/Time Col							
Gary Hoffmann, EEC				Dec. 13, 201	1 /9:30am						
Time Rainfall Began:	Duration of	Rainfall Event	:			Rainfall Amount (inches):					
Unknown	Unknown					0.21 (0.02 ft)					
Runoff Source:	Time Elapse	d Since Last 0.	1 inch Rainfa	ll Event:		Qualifying R					
Rainfall Snowmelt	Unknown							YES NO			
Estimated Total Volume of Disc 41,818 $ft^2 \times 0.01 ft^2$ of rain = 83	charge (Include 6 ft ³ X 95% r	le units; gal, ft ³ unoff = 795 <u>ft³</u>	, etc.): (7.48) = 5,94	3 gallons		NO DISCHA	RGE 🗌				
Parameter	Qua	antity or Loadi	ng	Quality	or Concentr	ation	No Ex	Frequency of	Sample Type		
	Average	Maximum	Units	Minimum	Average	Units		Analysis			
Total Dissolved Solids		5.47	Lbs	0	120	mg/L		Once each season	Grab		
Total Suspended Solids		3.55	Lbs	0	78	mg/L		Once each season	Grab		
Total Petroleum											
Hydrocarbons		0.26	Lbs	0	5.6	mg/L		Once each season	Grab		
Total Copper		0.00	Lbs	0	0.05	mg/L		Once each season	Grab		



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John Burton
Engineering & Env. Consultants, INC. -AZ
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020

Report Summary

Wednesday December 21, 2011

Report Number: L551531
Samples Received: 12/14/11
Client Project:

Description: Superior Maintenance Yard

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487 GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140 NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233 AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A, TX - T104704245, OK-9915, PA - 68-02979

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REPORT OF ANALYSIS

John Burton

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L551531-01

December 21, 2011

Site ID :

Project # :

Date Received : December 14, 2011
Description : Superior Maintenance Yard Description

: SUPERIOR FUEL YARD Sample ID

Collected By : Gary Hoffman Collection Date : 12/13/11 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	190	10.	mg/l	2540C	12/21/11	1
Suspended Solids	360	1.0	mg/l	2540D	12/19/11	1
Copper Copper,Dissolved	0.50 0.029	0.020 0.020	mg/l mg/l	6010B 6010B	12/20/11 12/20/11	1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09



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ESC Sample # : L551531-02

REPORT OF ANALYSIS

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

December 21, 2011

Date Received : December 14, 2011
Description : Superior Maintenance Yard Description

Sample ID : SUPERIOR MAINTENANCE YARD Site ID : Project # :

Collected By : Gary Hoffman Collection Date : 12/13/11 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	120	10.	mg/l	2540C	12/21/11	1
Suspended Solids	78.	1.0	mg/l	2540D	12/19/11	1
Copper Copper,Dissolved	0.047 BDL	0.020 0.020	mg/l mg/l	6010B 6010B	12/20/11 12/20/11	1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09

Summary of Remarks For Samples Printed 12/21/11 at 16:09:28

TSR Signing Reports: 288 R5 - Desired TAT

Sample: L551531-01 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08

Sample: L551531-02 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Phoenix, AZ 85020

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Tax I.D. 62-0814289

December 21, 2011

Est. 1970

Quality Assurance Report Level II

L551531

			поотоот							
Analyte	Result		boratory Bl nits	ank % Rec		Limit		Batch	Date Ana	.lyzed
Oil & Grease (Hexane Extr)	< 5	mg	g/l					WG570647	12/18/11	23:16
Copper, Dissolved	< .02	mş	g/l					WG570786	12/20/11	15:25
Copper	< .02	mg	g/l					WG570727	12/20/11	19:45
Dissolved Solids	< 10	mg	g/l					WG570457	12/21/11	14:55
Suspended Solids	< 1	mg	g/l					WG570450	12/19/11	_08:03
Analyte	Units	Result	Duplicate Duplic		RPD	Limit		Ref Sam	p Ba	ıtch
Copper	mg/l	0.510	0.500		2.37	20		L551531	-01 WG	570727
Dissolved Solids	mg/l	130.	125.		0.797	5		L551531	-02 WG	570457
Suspended Solids	mg/l	350.	360.		3.97	5		L551531	-01 WG	<u>5</u> 70450
Analyte	Units	Labora Known	tory Contro Val	l Sampl Resi		% Rec		Limit	Ba	ıtch
Oil & Grease (Hexane Extr)	mg/l	40		40.8		102.		78-114	WG	570647
Copper,Dissolved	mg/l	1.13		1.08		95.6		85-115	WG	570786
Copper	mg/l	1.13		1.15		102.		85-115	WG	570727
Dissolved Solids	mg/l	8800		8260		93.9		85-115	WG	570457
Suspended Solids	mg/l	773		732.		94.7		85-115	WG	<u>57</u> 0450
Analyte	I Units		Control Sam Ref	ple Dur %Rec	plicate	Limit	RPD	Lit	mit Ba	ıtch
Oil & Grease (Hexane Extr)	mg/l	40.1	40.8	100.		78-114	1.73	20	WG	570647
Copper,Dissolved	mg/l	1.08	1.08	96.0		85-115	0	20	WG	570786
Dissolved Solids	mg/l	8230	8260	94.0		85-115	0.437	20	WG	<u>57</u> 0457
Analyte	Units	MS Res	Matrix Spik Ref Res	e TV	% Rec	Limit		Ref Samp	Ba	ıtch
Copper, Dissolved	mg/l	1.07	0	1.13	94.7	75-125	i	L551531-	02 WG	570786

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton $7878\ N.\ 16th\ Street,\ Suite\ 140$

7878 N. 16th Street, Suite 140 Quality Assurance Report
Level II
Phoenix, AZ 85020

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December 21, 2011

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Matrix Spike TV Analyte Units MS Res Ref Res % Rec Limit Ref Samp Batch mg/l 1.75 0.500 1.13 111. 75-125 L551531-01 WG570727 Copper Matrix Spike Duplicate Analyte Units MSD Ref Limit RPD Limit Ref Samp Batch %Rec Copper, Dissolved WG570786 mg/l 1.08 1.07 95.6 75-125 0.930 20 L551531-02 Copper mg/l 1.71 1.75 107. 75-125 2.31 2.0 L551531-01 WG570727

L551531

Batch number /Run number / Sample number cross reference

WG570647: R1970612: L551531-01 02 WG570786: R1973812: L551531-01 02 WG570727: R1974432: L551531-01 02 WG570457: R1975194: L551531-01 02 WG570450: R1975312: L551531-01 02

 $[\]star$ \star Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Quality Assurance Report Level II

Phoenix, AZ 85020

L551531

December 21, 2011

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

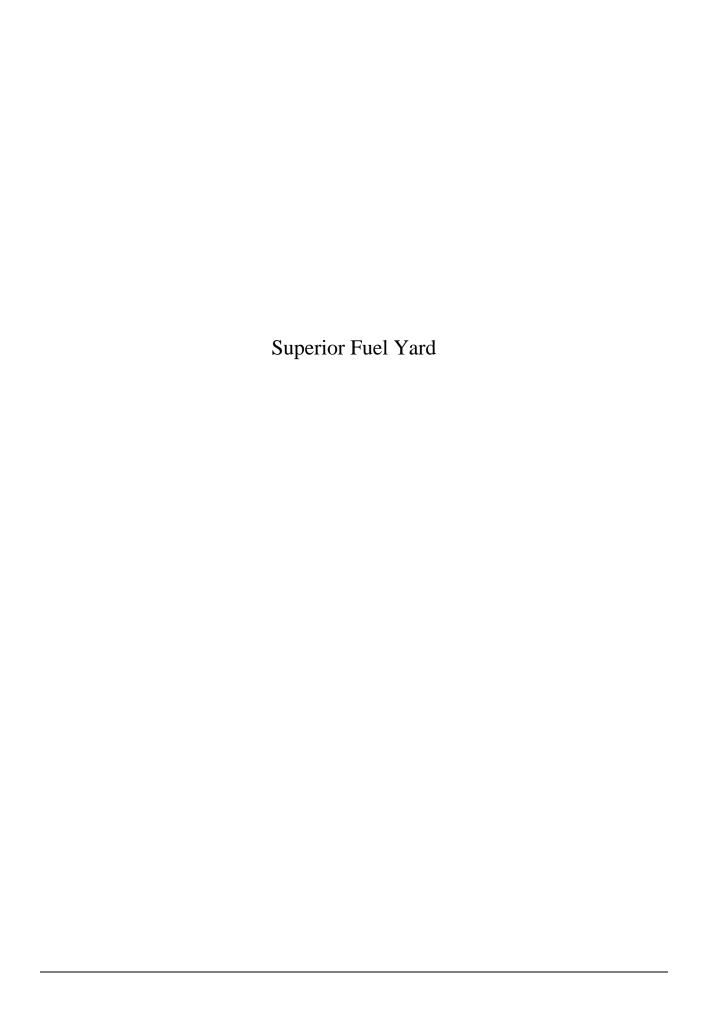
Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Name/Address		Alternate Billing				Analysis/Conta			ontain	er/Pre	eservative	_		Chain of Custody	
EEC 7878 N. 16th St., Suite 140 Phoenix, AZ 85020		Report to: John Burdon E-mail to: Dordon Cetty/State Collected: Survivor A 2 Lab Project #					Analy	/sis/Co	ontain	Pres	ervative	i in dalah dan dan sana sana sana	Prepared by: ENVIRON Science corp 12065 Leban Mt. Juliet TN	Page1_of1_ E151 MENTAL p non Road	
Project Description: Superior Mainten PHONE:602-248-7702 FAX: 602-248-7851	Client Project)	No.		Suraria	r/AZ		Pres	S	52	3 50	IDPE No		•	Phone (615) Phone (800) FAX (615	
		# Lab MUST be Next Day Two Day Three Day.	100%	P.O.# Date Result Email?N FAX?N	No_XYes	No of	3 250ml HDPE No	1	OGHEX 1L CIL HCL	500ml HDPE HNO3	(Dissolved) 500ml HDPE			CoCode ENGENVPAZ Template/Prelogin Shipped Via:	(lab use only)
	Comp/Grab	Matrix de of	Depth	Date	Time	Cntrs	X TDS	X TSS	<u>Б</u> О	∂ x	о х			Remarks/contaminant	Sample # (lab only)
Superior Ard Yard Superior Maintenance Yard	G.	0-1	6	12/3/11	9:30 10:00	3	x	×	× ×	+ 1	x X			~02	
														\$	
Matrix: SS-Soil/Solid GW-Groundwater WW-Wastewater DW-Remarks:			W-Drinking V	V-Drinking Water OT-Other Ruln worker			~ ·	504	1006	22	1891	pH_ Flow		Temp Other	
Relinquisher by (Right Art) Date: F			Received by (Signature)			Temp:			Bottles Received.				0 -	(lab use only) CDC 52 NCF:	
Neilingalaner by Gignature	Date:	Time.	received for it	ab by (signal	L. Va	1	Date:	12-	14-	(\ '	C	29/10		r Checked:	NCF:

-.4





Facility Name:				Monitoring Po		•		W 1: 100.0	00 0 (2.5				
Superior Fuel Yard				South central por	tion of yard			Y ard is 108,9	00 sq ft (2.5 acres)				
Facility Address:				Year:		~	~	_					
952/953 Main Street, Super				2011/2012 R		ear – Summe	er Storm	Event					
Monitoring Personnel Name(s)	:			Date/Time Col									
Gary Hoffmann, EEC				July 11, 2011	1		Insufficient sample volume for analyses						
Time Rainfall Began:	Duration of	Rainfall Event	:			Rainfall Am	ount (inch	,					
Unknown	Unknown					0.1 (0.008	ft)	Nalgene bottles at south	central portion of yard				
Runoff Source:	Time Elapse	ed Since Last 0.	.1 inch Rainfa	ll Event:		Qualifying Rainfall Event:							
☐ Rainfall ☐ Snowmelt	Unknown					⊠ YES □ NO							
Estimated Total Volume of Disc	charge (Includ	de units; gal, ft	³, etc.):			NO DISCHA	RGE 🗆						
$108,900 \text{ ft}^2 \text{ X } 0.008 \text{ ft}^2 \text{ of rain} =$	871 ft ³ X 95%	5 runoff = 827_	$ft^3 (7.48) = 6,$	186 <u>gallons</u>		100 Discin	INGL _						
Parameter	Qu	antity or Load	ing	Quality	or Concentr	ation	No Ex	Frequency of	Sample Type				
	Average	Maximum	Units	Minimum	Average	Units		Analysis					
				•		-			<i>a</i> 1				
Total Dissolved Solids*		1 11	l bc			mg/L		Once each season Grab					
		0	Lbs	0		mg/L							
Total Suspended Solids*		0	Lbs	0		mg/L		Once each season	Grab				
				-									
Total Suspended Solids*				•									
Total Suspended Solids* Total Petroleum		0	Lbs	0		mg/L		Once each season	Grab				
Total Suspended Solids* Total Petroleum Hydrocarbons*		0	Lbs Lbs	0		mg/L		Once each season Once each season	Grab Grab				
Total Suspended Solids* Total Petroleum Hydrocarbons*		0	Lbs Lbs	0		mg/L		Once each season Once each season	Grab Grab				
Total Suspended Solids* Total Petroleum Hydrocarbons*		0	Lbs Lbs	0		mg/L		Once each season Once each season	Grab Grab				
Total Suspended Solids* Total Petroleum Hydrocarbons*		0	Lbs Lbs	0		mg/L		Once each season Once each season	Grab Grab				
Total Suspended Solids* Total Petroleum Hydrocarbons*		0	Lbs Lbs	0		mg/L		Once each season Once each season	Grab Grab				

^{*}Insufficient sample volume for analyses



Facility Name:				Monitoring Po	int (Outfall):							
Superior Fuel Yard				South centra	portion of	yard		Yard is	108,900 sq ft (2.5 acres)			
Facility Address:				Year:								
952/953 Main Street, Super				2011/2012 R		ear – Winter	Storm E	vent				
Monitoring Personnel Name(s):	:			Date/Time Col			_					
Gary Hoffmann, EEC				12/13/11 /10	:00am		Nalgene bottles at south central portion of yard					
Time Rainfall Began: Unknown	Duration of Unknown	Rainfall Event	:			Rainfall Am 0.21 (0.02 ft)	ount (inch	` '				
Runoff Source: Rainfall Snowmelt	Time Elapse Unknown	ed Since Last 0.	1 inch Rainfa	ll Event:		Qualifying Rainfall Event: ☐ YES ☐ NO						
Estimated Total Volume of Disc 108,900 ft ² X 0.02 ft ² of rain = 2	charge (Includ ,178 ft ³ X 95%	le units; gal, ft [*] % runoff = 2,00	³ , etc.): 59 <u>ft³</u> (7.48) =	15,477 <u>gallons</u>		NO DISCHA	RGE 🗌]				
Parameter	Qu	antity or Loadi	ing	Quality	or Concentr	ntion No Ex		Frequency of	Sample Type			
	Average	Maximum	Units	Minimum	Average	Units		Analysis				
Total Dissolved Solids		14.43	Lbs	190		mg/L		Once each season	Grab			
Total Suspended Solids		27.34	Lbs	360		mg/L		Once each season	Grab			
Total Petroleum Hydrocarbons		0.43	Lbs	5.6		mg/L		Once each season	Grab			
Total Copper		0.04										
		0.04	Lbs	0.50		mg/L		Once each season	Grab			
		0.04	Lbs	0.50		mg/L		Once each season	Grab			
		0.04	Lbs	0.50		mg/L		Once each season	Grab			
		0.04	Lbs	0.50		mg/L		Once each season	Grab			
		0.04	Lbs	0.50		mg/L		Once each season	Grab			



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John Burton
Engineering & Env. Consultants, INC. -AZ
7878 N. 16th Street, Suite 140
Phoenix, AZ 85020

Report Summary

Wednesday December 21, 2011

Report Number: L551531
Samples Received: 12/14/11
Client Project:

Description: Superior Maintenance Yard

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

John Burton

Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

ESC Sample # : L551531-01

December 21, 2011

Site ID :

Project # :

Date Received : December 14, 2011
Description : Superior Maintenance Yard Description

: SUPERIOR FUEL YARD Sample ID

Collected By : Gary Hoffman Collection Date : 12/13/11 09:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	190	10.	mg/l	2540C	12/21/11	1
Suspended Solids	360	1.0	mg/l	2540D	12/19/11	1
Copper Copper,Dissolved	0.50 0.029	0.020 0.020	mg/l mg/l	6010B 6010B	12/20/11 12/20/11	1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/21/11 16:08 Printed: 12/21/11 16:09



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ESC Sample # : L551531-02

REPORT OF ANALYSIS

John Burton Engineering & Env. Consultants, INC 7878 N. 16th Street, Suite 140 Phoenix, AZ 85020

December 21, 2011

Date Received : December 14, 2011
Description : Superior Maintenance Yard Description

Sample ID : SUPERIOR MAINTENANCE YARD Site ID : Project # :

Collected By : Gary Hoffman Collection Date : 12/13/11 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Oil & Grease (Hexane Extr)	BDL	5.6	mg/l	1664A	12/18/11	1
Dissolved Solids	120	10.	mg/l	2540C	12/21/11	1
Suspended Solids	78.	1.0	mg/l	2540D	12/19/11	1
Copper Copper,Dissolved	0.047 BDL	0.020 0.020	mg/l mg/l	6010B 6010B	12/20/11 12/20/11	1 1

BDL - Below Detection Limit Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted. This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 12/21/11 16:08 Printed: 12/21/11 16:09

Summary of Remarks For Samples Printed 12/21/11 at 16:09:28

TSR Signing Reports: 288 R5 - Desired TAT

Sample: L551531-01 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08

Sample: L551531-02 Account: ENGENVPAZ Received: 12/14/11 09:00 Due Date: 12/21/11 00:00 RPT Date: 12/21/11 16:08



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140 $\,$

Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Fax (615) 758-5859

Tax I.D. 62-0814289

December 21, 2011

Est. 1970

Quality Assurance Report Level II

L551531

			поотоот							
Analyte	Result		boratory Bl nits	ank % Rec		Limit		Batch	Date Ana	.lyzed
Oil & Grease (Hexane Extr)	< 5	mg	g/l					WG570647	12/18/11	23:16
Copper, Dissolved	< .02	mş	g/l					WG570786	12/20/11	15:25
Copper	< .02	mg	g/l					WG570727	12/20/11	19:45
Dissolved Solids	< 10	mg	g/l					WG570457	12/21/11	14:55
Suspended Solids	< 1	mg	g/l					WG570450	12/19/11	<u>08:03</u>
Analyte	Units	Result	Duplicate Duplic		RPD	Limit		Ref Sam	p Ba	ıtch
Copper	mg/l	0.510	0.500		2.37	20		L551531	-01 WG	570727
Dissolved Solids	mg/l	130.	125.		0.797	5		L551531	-02 WG	570457
Suspended Solids	mg/l	350.	360.		3.97	5		L551531	-01 WG	<u>5</u> 70450
Analyte	Units	Labora Known	tory Contro Val	l Sampl Resi		% Rec		Limit	Ba	ıtch
Oil & Grease (Hexane Extr)	mg/l	40		40.8		102.		78-114	WG	570647
Copper,Dissolved	mg/l	1.13		1.08		95.6		85-115	WG	570786
Copper	mg/l	1.13		1.15		102.		85-115	WG	570727
Dissolved Solids	mg/l	8800		8260		93.9		85-115	WG	570457
Suspended Solids	mg/l	773		732.		94.7		85-115	WG	<u>57</u> 0450
Analyte	I Units		Control Sam Ref	ple Dur %Rec	plicate	Limit	RPD	Lit	mit Ba	ıtch
Oil & Grease (Hexane Extr)	mg/l	40.1	40.8	100.		78-114	1.73	20	WG	570647
Copper,Dissolved	mg/l	1.08	1.08	96.0		85-115	0	20	WG	570786
Dissolved Solids	mg/l	8230	8260	94.0		85-115	0.437	20	WG	<u>57</u> 0457
Analyte	Units	MS Res	Matrix Spik Ref Res	e TV	% Rec	Limit		Ref Samp	Ba	ıtch
Copper, Dissolved	mg/l	1.07	0	1.13	94.7	75-125	i	L551531-	02 WG	570786

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton $7878\ N.\ 16th\ Street,\ Suite\ 140$

7878 N. 16th Street, Suite 140 Quality Assurance Report
Level II
Phoenix, AZ 85020

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

December 21, 2011

Est. 1970

Matrix Spike TV Analyte Units MS Res Ref Res % Rec Limit Ref Samp Batch mg/l 1.75 0.500 1.13 111. 75-125 L551531-01 WG570727 Copper Matrix Spike Duplicate Analyte Units MSD Ref Limit RPD Limit Ref Samp Batch %Rec Copper, Dissolved WG570786 mg/l 1.08 1.07 95.6 75-125 0.930 20 L551531-02 Copper mg/l 1.71 1.75 107. 75-125 2.31 2.0 L551531-01 WG570727

L551531

Batch number /Run number / Sample number cross reference

WG570647: R1970612: L551531-01 02 WG570786: R1973812: L551531-01 02 WG570727: R1974432: L551531-01 02 WG570457: R1975194: L551531-01 02 WG570450: R1975312: L551531-01 02

 $[\]star$ \star Calculations are performed prior to rounding of reported values.

^{*} Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



Engineering & Env. Consultants, INC. -AZ John Burton 7878 N. 16th Street, Suite 140

Quality Assurance Report Level II

Phoenix, AZ 85020

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 21, 2011

Contigues Name/Address		Alternate Bi	Alternate Billing			Analysis/Container/Preservative					eservative	_		Chain of Custody	
7878 N. 16th St., Suite 140 Phoenix, AZ 85020 Project Description: Superior Maintenance Yard			Report to:	ohn Bu	ecchio co			Analy	/sis/Co	ontain	Pres	ervative	i in dalah dan dan sana sana sana	Prepared by: ENVIRON Science corp 12065 Leban Mt. Juliet TN	Page1_of1_ E151 MENTAL p non Road
PHONE:602-248-7702				Superior Lab Project #	State Collected:		Pres	S	52	3 50	IDPE No		•	Phone (615) Phone (800) FAX (615	
Collected by: Collected by: Collected by: Collected by(signature): Rush? (Lab MUST be Next Day Two Day Packed on Ice N_ Y		100%	P.O.# Date Result Email?N FAX?N	No_XYes	No of	3 250ml HDPE No	1	OGHEX 1L CIL HCL	500ml HDPE HNO3	(Dissolved) 500ml HDPE			CoCode ENGENVPAZ Template/Prelogin Shipped Via:	(lab use only)	
	Comp/Grab	Matrix de of	Depth	Date	Time	Cntrs	X TDS	X TSS	<u>Б</u> О	∂ x	о х			Remarks/contaminant	Sample # (lab only)
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APPENDIX I Discharge Monitoring Reports

Marsh Station Doubtful Canyon





NO DISCHARGE THIS MONTH

PROJECT NAME AND ADD	
I-10 Marsh	Station to
Genega Cr	eek_
AMA -010-E(201)A	\$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID YEAR

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure unter my attention or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. TOM Billings

TITLE OF PRINCIPAL EXECUTIVE OFFICER

22-619·B454 TELEPHONE

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH YEAR **PARAMETERS** TURBIDITY Streamflow ANALYSIS TYPE: Field Field Calc.* (Field, Lab, Calculation*) NTUs UNITS ft³/sec kg/day Min. TMDL PERMIT Mean Info LIMITS Max. Only 1 2 3 4 5 6 7 8 9 10 11 12 MONTH 13 14 15 HE 16 17 Q 18 DAY 19 20 21 22 23 24 25 26 27 28 29 30 31 Monthly Mean Highest Value Lowest Value Number of Exceedances * TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

I certify under penalty of law, that this document and all attachments were prepared when my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Bused on my inquiry of the person or persons who manuge the system, or those persons directly responsible forgathering information, the information submitted is, to the bast of my knowledge und belief, true, accurate, and complete. I am aware that there are significant penalties for submitting filie information, including the possibility of fine and imprisonment for knowing violations.

Billings OM NAME OF PRINCIPAL EXECUTIVE OFFICER

ECC

PAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-8484



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID PARAMETERS TURBIDITY Streamflow ANALYSIS TYPE: Field Field Calc.* (Field, Lab, Calculation*) UNITS NTUs ft³/sec kg/day Min. TMDL PERMIT Mean Info LIMITS Max. Only 1 2 3 4 5 6 7 8 9 10 11 MONTH 12 13 14 15 出出 16 17 Q 18 19 20 21 22 23 24 25 26 27 28 29 30 31 Monthly Mean Highest Value Lowest Value Number of Exceedances * TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

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Billings OM NAME OF PRINCIPAL EXECUTIVE OFFICER

ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER

CIPAL EXECUTIVE OFFICER

02-619-8454



ÑO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(201)A. \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forguthering information, the information submitted is, to the best of my knowledge and belief, true, accumite, and complete. I am award that there are significant penalties for submitting fidse information, including the possibility of fine and imprisonment for knowing violations.

TOM Billings

ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008
PERMIT NUMBER MONITORING POINT ID

CC 2011 MONTH YEAR

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TOM BILLINGS
NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PROJUGIAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

PAR EXECUTIVE OFFICER

8/23/11 DATE

602-619-B494



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADD	
I-10 Marsh	Station to
Genega Cr	eek
AMA-010-E(201)A	\$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID YEAR

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forguthering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations. TOM BILLIAS

ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER

EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(201)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID HTHOM YEAR PARAMETERS TURBIDITY Streamflow ANALYSIS TYPE: Field Field Calc.* (Field, Lab, Calculation*) UNITS NTUs ft³/sec kg/day Min. TMDL PERMIT Mean Info LIMITS Max. Only 2 3 4 5 6 7 8

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TOM Billings

ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER

02-619-<u>8</u>454

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Cienega Creek AMA-010-E(201)A \$ 010-€-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID MONTH YEAR

PA	ARAMETERS		TURBIDITY	1			T	Streamflow	· · · · ·
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquiry of the person or persons who manage the system, or those persons directly responsible forguthering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant populties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

NAME OF PRINCIPAL EXECUTIVE OFFICER

ECC

TITLE OF DEPARTMENT OF THE PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER 602-619-8454

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(201)A \$ 010-€-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008
PERMIT NUMBER MONITORING POINT ID

07720

YEAR

PARAMETERS		TURBIDITY				Streamflow	
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TOM BILLIAS
NAMB OF PRINCIPAL EXECUTIVE OFFICER

NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

9 29 11 DATE

602-619-B454

SIGNATURED THINGIP OF EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:

I-10 Marsh Station to

Genega Creek

AMA-010-E(20)A \$ 010-E-WFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008
PERMIT NUMBER
MONITORING POINT ID
MONTH
YEAR

PARAMETERS		TURBIDITY	1	T	1	1	Streamflow	T
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	* IMDL Loa	ding Calculations in	kg/day: mg/	L x Streamflow	x 2.4465 :g	L x Streamflow	<u>v x</u> 0.0024465	

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I om aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

TOM Billings
NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC

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602-619-8454

SIGNATURE OF PRINCIPAL EXECUTIVE OF FICER



DAY

ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

		000018-2008		#2	102911
<u></u>	PERIV	AIT NUMBER		MONITORING POINT ID	MONTH YEAR
	LAMETE		TURBIDITY		Streamflow
ANALYSIS TYPE: (Field, Lab, Calculation*)		Field		Field Calc.*	
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* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465 :g/L x Streamflow x 0.0024465

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. mit quantities personned projectly guinered and endudated the information summitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted it, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Monthly Mean Highest Value Lowest Value Number of Exceedances

TOM BILLIAS
NAME OF PRINCIPAL EXECUTIVE OFFICER

ECC TITLE OF PRINCIPAL EXECUTIVE OFFICER

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Cienega Creek AMA-010-E(201)A \$ 010-€-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER MONITORING POINT ID

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ussure that qualified personnel properly gathered and evaluated the information submitted. Bused on my inquiry of the person or persons who munuge the system, or those persons directly responsible forguthering information, the information submitted is, to the bast of my knowledge and belief, true, accurate, and complete. I am owner that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

NAME OF PRINCIPAL EXECUTIVE OFFICER

ECC TITLE OF PRINCIPAL

CIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

		000018-2008			117		7 7
L	PERM	IT NUMBER	l	MONITORING POINT ID	MONTH	YEAL	
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I certify under penulty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

* TMDL Loading Calculations in kg/day: mg/L x Streamflow x 2.4465

TOM Billings
NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC

:g/L x Streamflow x 0.0024465

602-619-6

TITLE OF PRINCIPAL EXECUTIVE OFFICER

02-619-849 TELEPHONE

SIGNATURE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AMA-010-E(201)A\$ 010-E-NFA

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Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER		MONITORING POINT ID	MONTH	Z O YEAR	<u>/ </u>
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TOM Billings NAME OF PRINCIPAL EXECUTIVE OFFICER

12 2 ((

TITLE OF PRINCIPAL EXECUTIVE OFFICER

02-619-849

SIGNATURE PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA - 010-E(20)A \$ 010-E-NFA
MIGGA- DIO-E (WITH TOTO E NIT

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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AZS000018-2008	75	
PERMIT NUMBER	MONITORING POINT ID	MONTH YEAR

PA	RAMETER	S	TURBIDITY		I	T	1	Streamflow	т
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TOM Billings

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER

TELEP

TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

	#/		- July - July
AZS000018-2008	-3,1	1 6	
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR

PARAMETERS ANALYSIS TYPP (Field, Lab, Calcui UNITS PERMIT LIMITS		Field NTUs					Streamflow Field ft³/sec	Calc.*
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TOM BILLIAS
NAME OF PRINCIPAL EXECUTIVE OFFICER ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA-010. E(20))A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBE		MONITORING POINT ID	MONTH YEAR
PARAMETERS	TURBIDITY		Streamflow

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guthered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting faits information, including the possibility of fine and imprisonment for knowing violations.

TOM BILLINGS
HAME OF PRINCIPAL EXECUTIVE OFFICER

ECC.

TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-8454

SIGNATURE STRANGIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Cienega Creek AMA-010-E(201)A‡010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008	MONITOR BIG PORTY ID	12	2011
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR

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TOM Billings
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ECC

TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER



NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA-010-E(201)A \$ 010-E-NFA
MIGGA-DIOLE (WITH & DIOLE NIM

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZ\$000018-2008 PERMIT NUMBER	MONITORING POINT ID	YEAR

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TOM BILLIAS

NAME OF PRINCIPAL EXECUTIVE OFFICER

FC

2/2/12 DATE

TITLE OF PRINCIPAL EXECUTIVE OFFICER

02-619-8451

SIGNATURE PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER	MONITORING POINT ID	O (Z O / Z MONTH YEAR
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ANALYSIS TYPE: (Field Lab, Calculation*) Field Field Calc.*	PA	RAMETERS	S	TURBIDITY	·- · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	T *****		7	т
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TOM BILLIAGS
NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

CIPAL EXECUTIVE OFFICER

602-619-8484

TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AARA-010-E(20)A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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AZS000018-2008			20112
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR

PARAMETERS		TURBIDITY					Streamflow		
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TOM Billings
NAME OF PRINCIPAL EXECUTIVE OFFICER
ECC

CIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

<u>602-619-8484</u>



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Cienega Creek AMA-010-E(201)A € 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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TOM BILLIAS NAME OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER

PAL EXECUTIVE OFFICER

602-619-8454 TELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Cienega Creek AMA-010-E(201)A‡010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008	#2	10121	7 77 7 7 7	
PERMIT NUMBER	MONITORING POINT ID	MONTH	YEAR	_

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TOM Billings NAME OF PRINCIPAL EXECUTIVE OFFICER

VELEXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
AMA-010-E(20))A \$ 010-E-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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TOM BILLIAS
NAME OF PRINCIPAL EXECUTIVE OFFICER

3/11/2 DATE

TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-84

SIGNATURE OF PRANCIPAL EXECUTIVE OFFICER

LELEPHONE



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: I-10 Marsh Station to Genega Creek AARA-010-E(20)A \$ 010-€-NFA

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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AZS000018-2008	#		7.1621.17
PERMIT NUMBER	MONITORING POINT ID	MONTH	
			12711

PARAMETERS		TURBIDITY				Streamflow	Т
ANALYSIS TYPE:		Field			· · · · · · · · · · · · · · · · · · ·		
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TITLE OF PRINCIPAL EXECUTIVE OFFICER

IPAL EXECUTIVE OFFICER



M NO DISCHARGE THIS MONTH

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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TOM BILLINGS
NAME OF PRINCIPAL EXECUTIVE OFFICER
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4/2//2 DATE

TITLE OF PRINCIPAL EXECUTIVE OFFICER

602-619-8454

SIGNATURE AND STREET OF STREET



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS:
I-10 Marsh Station to
Cienega Creek
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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W Jackson Street, MD EM02

Phoenix, AZ 85007

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TITLE OF PRINCIPAL EXECUTIVE OFFICER

CIPAL EXECUTIVE OFFICER



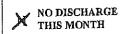
Doubtful Canyon



AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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SRZGO Doubtfull Canyon Section	~	1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007
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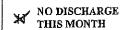


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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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5R 260		Water Quality Group 1611 W. Jackson Street, MD EM02
Doubtfull Canyon Section	~	Phoenix, AZ 85007

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John J Baker 11-1-11

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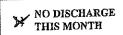
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AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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John J Baker

NAME OF PRINCIPAL EXECUTIVE OFFICER

THE OF PRINCIPAL EXECUTIVE OFFICER

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FIGURE OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 12 of 12



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

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ETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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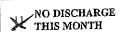
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Appendix D Page 12 12



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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PROJECT NAME AND ADDRESS: Ames Construction	co
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AZS000018-2008

MPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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RE OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 12 of 12



NO DISCHARGE
THIS MONTH

Ames Construction	co
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Poubtful Canyon Section	

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

AZSDODO18-2008

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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

ENVICON MENTAL MANASCY 602 431-211

AGENTURE OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 12 12



NO DISCHARGE
THIS MONTH

	PROJECT NAME AND ADDRESS: Ames Construction	co
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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

il to: ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

THE OF PRINCIPAL EXECUTIVE OFFICER

FIGURITARE OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 12 of 12



NO DISCHARGE THIS MONTH

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State Hisway Payson - Show Low
SRZ60
Doubtfull Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

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ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD BM02 Phoenix, AZ 85007

AZS000018-2008
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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

Envisor mental Manager 602 431-2111

THEOF PUBLICAL EXECUTIVE OFFICEL TELEPHIONE

Appendix D Page 12 12



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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PROJECT NAME AND ADDRESS: Ames Construction State Hisway Payson - Show Le	.co;
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ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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RE OF PRINCIPAL EXECUTIVE OFFICER



AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

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5RZ60 Doubtfull Canyon Section	~	1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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John J. Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

Ervicon mental Manager (62 431 - 211)

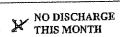
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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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	SRZGO Doubtfull Canyon Section	~

DMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction ar supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, true, occurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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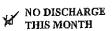
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Appendix D Page 12



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



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SRZ60 Doubtfull Canyon Section	N

OMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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Page 12 of 12 Appendix D



NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: Ames Construction	COV
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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ B5007

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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

ENVICON MENTAL MANAGER (62 431-21)

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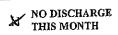
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Appendix D Page 12 of 12



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



	PROJECT NAME AND ADDRESS: Ames Construction State Hisway Payson - Show Lo	co ~~
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IMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

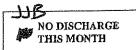
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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgothering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PRINCIPAL EXECUTIVE OFFICER
RE OF PRINCIPAL EXECUTIVE OFFICER





PROJECT NAME AND ADDRESS:

Ames Construction

State Hisway Payson - Show Low Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

ENISON MENTAL MANASSE 602 431-21

TOLE OF PRINCIPAL EXECUTIVE OFFICER

MONTHUR OF PRINCIPAL EXECUTIVE OFFICER

Appendix D Page 12 12
STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities
ARIZONA DEPARTMENT OF TRANSPORTATION September 2009



AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: Ames Construction State Hisway Payson - Show L		COMPLETE AN	O SUBMIT ONE COPY PER MONITORING POIN
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582100			Water Quality Group 1611 W. Jackson Street, MD EM02
Doubtfull Canyon Sect:	والم		Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted.

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AGNITATE OF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Doubtfull Canyon Section,	~	Phoenix, AZ 85007
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John J Baker 11-1-11

NAME OF PRINCIPAL EXECUTIVE OFFICER

ENVS ON MENTAL MANASCY 602 431-211

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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Doubtfull Canyon Section	~	Phoenix, AZ 85007

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Doubtfull Canyon Section	~·	1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

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State Hisway	Payson	- 55000 L	ىرم-

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services
Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

Probtfull Canyon Section

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John J Baker 11-1-11

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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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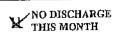
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AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008



PROJECT NAME AND ADDRESS: Ames Construction COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT State Hisway Payson - Show Low ADOT Office of Environmental Services Mail to: Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION

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Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

0018-2008

FROJECT NAME AND ADDRESS:
Ames Construction
State Hisway Payson - Show Low

COMPLETE AND SUBMIT ONE COPY FER MONITORING POINT

I to: ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

Doubtful Canyon Section

AZS000018-2008 PERMIT NUMBER

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Appendix D Page 12



PERMIT NUMBER

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Doubtfull Canyon Section	~	Phoenix, AZ 85007

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John J Baker 1)-1-11

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Appendix D Page 12



AZS000018-2008

ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008 W NO DISCHARGE THIS MONTH

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Doubtfull Canyon Section	<i>ب</i>	Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE
THIS MONTH

PROJECT NAME AND ADDRESS:

Ames Construction

State Highay Payson - Show Low Mail to: ADOT Office of Environmental Services
Water Quality Group
1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

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Appendix D Page 12
STORMWATER MONITORING GUIDANCE MANUAL for Construction Activities
ARIZONA DEPARTMENT OF TRANSPORTATION September 2009



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ΙX	THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under pointly of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guiltered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that there are significant permitties for submitting false information, including the possibility of flue and imprisonment for lauwing violations.

John J Baker, CPESC ECC

Regional Environmental Manager
title of Principal Enecutive Officer

11/30/11 DATE (602) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTE

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

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Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information saturated. Plaxed on my impairy of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted in the best of my knowledge and belief, true, occurate, and complete. I am aware that there are significant possibility for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 DATE (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

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Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 (602) 370-6387

602) 370-63B



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accurdance with a system designed to assure that qualified personnel properly galacted and evaluated the information ratimities. Based on my inquity of the person or persons who manage the system, or those persons directly resymmithe forgathering information, the information salmidited is, to the test of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the pussibility of fine and imprisonment for knowley violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
THE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 DATE (602) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of two, that this document and all attachments were prepared under my direction as supervision in accordance with a system designed to assure that qualified persuant properly guilared and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the bast of my knowledge and belief, true, accurate, and complete. I can owner that there we significant penulties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PICINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

| NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		7			1	1_	2	0	111
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I certify under penalty of law, that this document and all alluchments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personned properly gathered and evaluated the information submitted. Hased on my implies of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the less of my knowledge and being true, accurate, and complete. I not aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
THILE OF PRINCIPAL ENECUTIVE OFFICER

11/30/11 DATE (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TITLE OF PRINCIPAL EXECUTIVE OFFICER

11/30/11 DATE (6B2) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

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1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER		MONITO	RING POINT	ID .	1 MOI	2 NT!1	2 0 YE/	1 1 IR
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

THILE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11 BATE (602) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

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Phoenix, AZ 85007

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I certify under penulty of low, that this document and all ottocharons were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my impiry of the person or persons who manage the system, at those persons directly responsible forgulatering information, the information submitted is, to the less of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting faire information, including the musibility of fine and imprisanment for knowing violations.

John J Baker, CPESC ECC

Regional Environmental Manager

12/30/11 DATE (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

|本 NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: A

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

12/30/11 DATE (602) 370-6387 TELEPHONE

TITLE OF PRINCIPAL EXECUTIVE OFFICER



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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AZS000018-2008 PERMIT NUMBER	MONITORING POINT ID	1 2 MONTH	2 0 YE.	AR _	1

PARAMETERS	TURBIDITY	Streamflow	
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I certify under penalty of law, that this document and all attachments were prepared under any direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Hossel on my implify of the personn or persons who numage the system, or those persons directly responsible forgalatering information, the information submitted is to the less of my knowledge and belief, true, accurate, and complete. I not owner that there are significant populates for submitting false information, including the probability of face and imprisonment for knowledge valuations.

John J Baker, CPESC ECC

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Regional Environmental Manager
TITLE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11 DATE (602) 370-6387



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Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		5	O DOWNER ID	1 2 MONTH	2 0 <u>YEA</u>	1 1
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I verify under penulty of law, that this document and all altachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personned properly gathered and evaluated the information submitted. Based on my impury of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my handeling out helief, true, accorde, and complete. I am aware that there are significant panalics for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11 DATE (602) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

AZS000018-2008 MONTH YEAR MONITORING POINT ID PERMIT NUMBER

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I certify under penalty of law, that this document and all allachments were prepared under any direction at supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penalties for submitting faise information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11 DATE (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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THIS MONTH

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penulty of law, that this document and all attachments were prepared under my direction or supervision in accurdance with a system designed to assure that qualified personnel properly galacred and evaluated the information submitted. Based on my impuly of the person or persons who manage the system, or thuse persons directly responsible forgothering information, the information submitted is, to the best of my howeledge and belief, true, accurate, and complete. I am aware that there are significant penulties for submitting false information, including the possibility of fine and imprisonment for howevery violations.

John J Baker, CPESC ECC

Regional Environmental Manager

12/30/11 DATE (602) 370-6387



ARIZONA DEPARTMENT OF TRANSPORTATION

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

12/30/11 DATE (602) 370-6387 TELEPHONE



ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER		MONITO	RING POINT	ID	0 1 MONTH	2 0 YEAI	1 2
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NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12 DATE (602) 370-6387



## ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all intachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified persuancel properly gathered and evaluated the information submitted. Hased on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I not aware that there are significant penalties for submitting false information, including the possibility of five and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager
TITLE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12 BATE (602) 370-6387 TELEPHONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all altachagants were prepared under my direction or supervision in accordance with a system designed to assure that qualified personned properly gulhered and evaluated the information submitted. Bused on my impury of the person or persons who moneye the system, or that persons directly responsible forgathering information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting faste information, including the possibility of five and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12 (602) 370-6387 TELÉPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guitared and evaluated the information submitted. Based on my inquiry of the person or persons who immage the system, or those persons directly responsible forgathering information, the information submitted is not to be at a further and emploie. I am aware that there are significant penultia for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

1/31/12 DATE (602) 370-6387



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

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COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		5	POINT ID	0   1 MONTH	2 0 1 2 YEAR	
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I certify under pointly of law, that this document and all attachments were prepared under my dispection or supervision in accordance with a system designed to assure that qualified personnel properly guidecod and evaluated the information submitted. Based on my inquiry of the person or persons who maninge the system, or those persons directly responsible forgathering information, the information submitted is, to the loss of my knowledge and helief, true, accurate, and complete. I am more that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager 1/31/12 DATE (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

1/31/12 DATE (602) 370-6387



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

1/31/12 DATE (602) 370-6387

(602) 370-6387



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Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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Regional Environmental Manager



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ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02 Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guilared and evaluated the information submitted. Based on my inquiry of the pecton or persons who amonge the system, or those persons directly responsible fargulatering information, the information standited is, to the last of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing vialutions.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

Title of PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387 TELEPHONE



# ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: All

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of low, that this document and all attachments were prepared under my direction in supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my impiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am awate that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387 TELEPHONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group 1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 (6D2) 370-6387 TELEPHONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Mail to:

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Water Quality Group

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Phoenix, AZ 85007

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John J Baker, CPESC ECC

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Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387 TELEPHONE



# ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to: ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoeвіх, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Bused on my imprity of the person or persons who mattinge the system, or these persons directly responsible forgathering information, the information submitted is, to the less for my knowledge and helief, true, accurate, and complete. I am aware that these are significant penalties for submitting false information, including the possibility of face and imprivament for knowing violations.

John J Baker, CPESC ECC

RAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Managar
HILE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Moil to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		8	0 2 MONTH	2 0 YEAT	1 2
PERMIT NUMBER		MONITORING POINT ID	MONTH	<u> </u>	
			<del>_</del>	Streamflow	1
PARAMETERS	TURBIDITY				Calc.*
ANATYSIS TYPE:	Field			Field ft³/sec	kg/day
(Field, Lab, Calculation*) UNITS	N'J'Us			It isec	TMDL
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PERMIT Mean					Only
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Lowest Valu		<del>_</del>			!
Number of Exceedance	s L	s in kg/day: mg/L x Streamflow x 2.4	165 pl. x Stream	flow x 0.0024465	<u> </u>
* TMDL Lo	ading Calculation	S III KEMBAY. HIGHE X SHORIMINA X 2. 1			

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly galacted and evaluated the information submitted. Hused on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the best of my knowledge and belief, tene, accurate, and complete. I can aware that there are significant penalties for submitting false information, including the possibility of five and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

2/29/12 DATE (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008 NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. David on my impairy of the piction or persons who manage the system, or those persons directly responsible forgulatering information, the information submitted is, to the level of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine and imprisonment for harving violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL ENECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Smeet, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gathered and evaluated the information submitted. Hased on my inquity of the person or persons who manage the system, or times persons directly responsible forgathering information, the information submitted is, to the less of my knawledge and belief, true, occurate, and complete. I am aware that there are significant panalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387



### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mailto

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387



## ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008 NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

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Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OF FICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387 TELEPHONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager TETLE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

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ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly guitered and evaluated the information submitted. Bused on my impiry of the person at persons who manage the system, or thuse persons directly responsible fargulaering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am owner that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing ciolations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

3/30/12 DATE (602) 370-6387 TELEPHONE



## ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify native penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personned properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted in the thest of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

4/30/12 DATE (602) 370-6387

TIPLE OF PRINCIPAL EXECUTIVE OFFICER



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

X NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penulty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my impairy of the person or persons who among the system, or those persons directly responsible fargulatering information, the information submitted is, to the best of my knowledge and helief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the pushbility of flux and imprisonment for humoing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12 DATE (602) 370-6387 TELEPHONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

4/30/12 DATE (602) 370-6387 TELEPHONE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

TITLE OF PRINCIPAL EXECUTIVE OFFICER



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Mail to: ADOT Office of Environmental Services
Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12 DATE (602) 370-6387



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

4/30/12 DATE (602) 370-6387

TELEPHONE

### Attachment E

# ADOT Discharge Monitoring Report for Analytical Monitoring



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible forgathering information, the information submitted is, to the hest of my knowledge and helief, true, accurate, and complete. I mu aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager

TITLE OF PRINCIPAL ENECUTIVE OFFICER

4/30/12 (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICER Regional Environmental Manager

4/30/12 DATE (602) 370-6387 TELEPHONE

TITLE OF PRINCIPAL EXECUTIVE OFFICER



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Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICES
Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

4/30/12 DATE (602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

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Mail to

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12 DATE (602) 370-6387 TELEPHONE



# ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Phoenix, AZ 85007

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Regional Environmental Manager

TITLE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12 DATE (602) 370-6387 TELEPHONE



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ADOT Office of Environmental Services

Water Quality Group

161) W. Jackson Street, MD EM02

Phoenix, AZ 85007

AZS000018-2008		3	1	0 5	2 0	1 2
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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

5/31/12 DATE (602) 370-6387

TITLE OF PRINCIPAL EXECUTIVE OFFICER



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Phoenix, AZ 85007

AZS000018-2008 PERMIT NUMBER		MONITO	RING POINT	di	MONTH	YEA	R
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John J Baker, CPESC ECC

Regional Environmental Manager
TITLE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12 DATE (602) 370-6387 TELEPRONE



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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NAME OF PRINCIPAL EXECUTIVE OFFICER

Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12 (602) 370-6387 TELEPHONE



# ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

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Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my impiter of the person or persons who unange the system, or those persons directly estimatible forgathering information, the hyboradion submitted is, to the best of my knowledge and belief, two, wecarete, and complete. I am aware that there are significant penalties for submitting folse information, including the possibility of fine and imprisonment for knowledge violations.

John J Baker, CPESC ECC
NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

5/31/12 DATE (602) 370-6387

TITLE OF PRINCIPAL EXECUTIVE OFFICER
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER

#### Attachment E

#### ADOT Discharge Monitoring Report for Analytical Monitoring



#### ARIZONA DEPARTMENT OF TRANSPORTATION Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services Water Quality Group

1611 W. Jackson Street, MD EM02

Phoenix, AZ 85007

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I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure anacting arction or supervision in accordance with it System assigned to assire that qualified personnel properly galhered and evaluated the information submitted. Based on my inquiry of the person or persons who movinge the system, or those persons directly responsible forgothering information, the information submitted is, in the best of my knowledge and belief, true, accordic, and complete. I am wave that there are significant penalties for submitting fulse information, including the possibility of fine and imprisonment for knowing violations.

John J Baker, CPESC ECC NAME OF PRINCIPAL EXECUTIVE OFFICES 5/31/12

Regional Environmental Manager TITLE OF PRINCIPAL EXECUTIVE OFFICER

(602) 370-6387 TELEPHONE



### ARIZONA DEPARTMENT OF TRANSPORTATION

Monthly Discharge Monitoring Report (DMR) Form for the ADOT Statewide Permit #AZS000018-2008

IX NO DISCHARGE THIS MONTH

PROJECT NAME AND ADDRESS: SR 260 Doubtful Canyon Section

COMPLETE AND SUBMIT ONE COPY PER MONITORING POINT

Mail to:

ADOT Office of Environmental Services

Water Quality Group

1611 W. Jackson Sπeet, MD EM02

Phoenix, AZ 85007

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John J Baker, CPESC ECC

NAME OF PRINCIPAL EXECUTIVE OFFICER
Regional Environmental Manager

THE OF PRINCIPAL EXECUTIVE OFFICER

5/31/12 DATE (602) 370-6387

.

# **APPENDIX J Storm Event Records for MS4 Monitoring Locations**

### **Storm Event Record 2011-2012** Report Year

#### **ADOT MS4 Sampling Locations**

	Data	Outfall 1	Rainfall	Outfall 2	Rainfall	Outfall 3	Rainfall	Outfall 4	Rainfall	Outfall 5	Rainfall
	Date	Phoenix	(inches)	Sedona	(inches)	Flagstaff	(inches)	Tucson	(inches)	Nogales	(inches)
	07/24/2011	-	-	-	-	-	-	NS	0.26	-	-
	07/25/2011	-	-	-	-	NS	0.34	-	-	-	-
	07/30/2011	NS	0.13	-	-	-	-	-	-	-	-
	8/2/201	-	-	-	-	-	-	NS	0.21	-	-
	08/03/2011	-	-	-	-	NS	0.22	-	-	-	-
	08/14/2011	-	-	-	-	NS	0.49	-	-	-	-
	08/18/2011	-	-	-	-	=	=	NS	0.26	-	-
Summer	09/05/2011	-	-	-	-	NS	0.13	-	-	-	-
June 1 - Oct. 31	09/10/2011	-	-	-	-	-	-	NS	1.4	-	-
	09/15/2011	-	-	-	-	IF	0.1	-	-	-	-
	10/02/2011	-	-	-	-	-	-	NS	0.13	-	-
	10/06/2011	-	-	-	-	NS	0.51	-	-	-	-
	10/26/2011	-	-	-	-	NS	0.13	-	-	-	-
	06/16/2012	-	-	-	-	-	-	IF	0.16	IF	0.1
	06/27/2012	-	-	-	-	-	-	NS	0.32	IF	0.1
	11/07/2011	-	-	-	-	-	-	PS	0.28	-	-
	11/05/2011	PS	0.24	-	-	-	-	-	-	-	-
	11/13/2011	IF	0.1	-	-	-	-	NS	0.39	-	-
	12/01/2011	-	-	-	-	-	-	IF	0.12	-	-
	12/12/2011	NS	0.19	-	-	=	=	-	-	-	-
	12/13/2011	-	-	-	-	-	-	NS	0.37	-	-
Winter	12/18/2011	-	-	-	-	-	-	NS	0.1	-	-
Nov. 1 - May 31	01/15/2012	-	-	-	-	-	-	IF	0.13	-	-
	02/12/2012	-	-	IF	0.1	-	-	-	-	-	-
	03/18/2012	-	-	-	-	-	-	NS	0.23	-	-
	03/24/2012	IF	0.11	-	-	-	-	-	-	-	-
	04/14/2012	-	-	-	-	-	-	IF	0.1	-	-
	04/17/2012	-	-	-	-	IF	0.1	-	-	-	-
	04/26/2012					NS	0.44				
	12/26/2012	-	-	-	-	-	-	-	-	NS	0.14
	12/31/2012	-	-	-	-	-	-	-	-	NS	0.55

### KEY:

NS No Sample Collected - equipment malfunction or debris issues

Sample Collected

SC IF **Insufficent Flow for Sample Collection** 

# **APPENDIX K**Estimates of Pollutant Loading for MS4 Locations

Phoenix Tucson



### Miscellaneous Pollutant Loading Estimate ADOT Phoenix MS4 2011/2012 Report Year

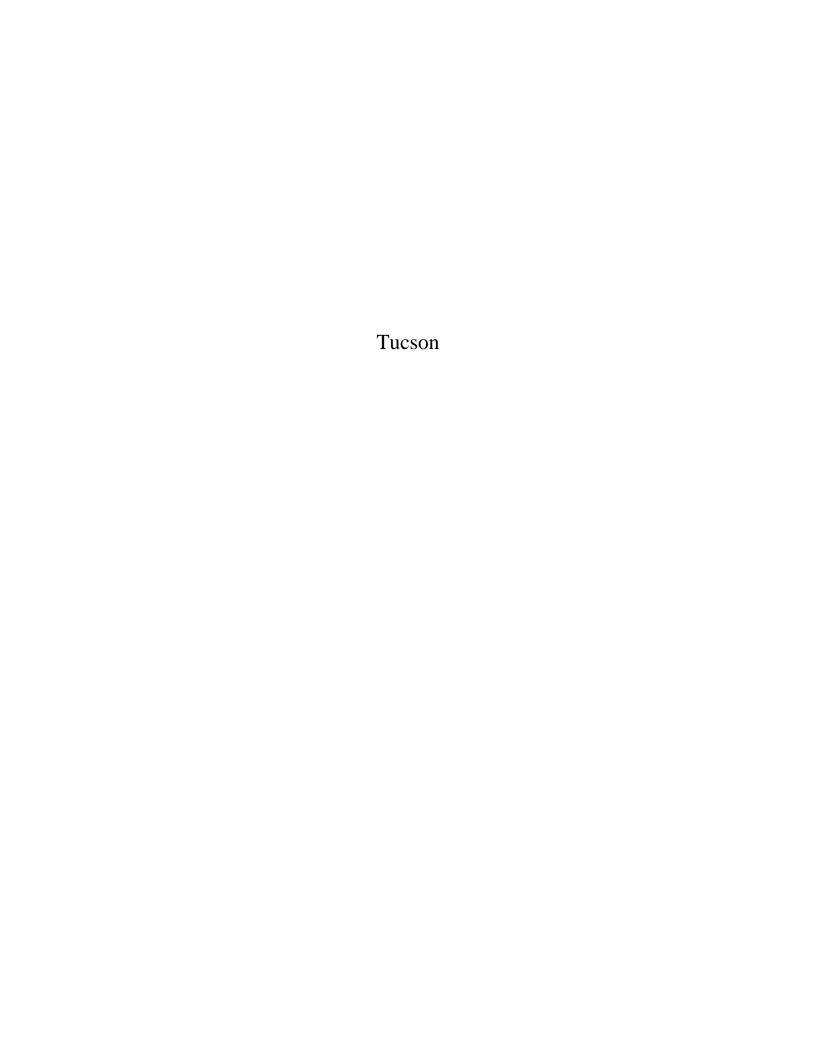
		•	Pollutant					
	Unit Conversion	Runnoff or R value	Concentration					
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)			
Oil & Grease (grab)	0.226	0	NS	32.00	0.00			
TPH (grab)	0.226	0	NS	32.00	0.00			
E. Coli (grab)	103	0	NS	32.00	0.00			
BOD	0.226	0	NS	32.00	0.00			
COD	0.226	0	NS	32.00	0.00			
TSS	0.226	0	NS	32.00	0.00			
TDS	0.226	0	NS	32.00	0.00			
Total Nitrogen	0.226	0	NS	32.00	0.00			
TKN	0.226	0	NS	32.00	0.00			
Total Phosphorous	0.226	0	NS	32.00	0.00			
Metals - varies	0.226	0	NS	32.00	0.00			
Drainage Area (acres)	32							
Winter Runoff	0							
Winter Rainfall	0							
Percent of Rainfall Runoff	0.9							
Percent of Site Impervious	0.95	Simple Method Pollutant Calculation: L=0.226*R*C*A						
Runoff Factor		Simple Method Bacteria Calculation: L=103*R*C*A						

### Miscellaneous Pollutant Loading Estimate ADOT Phoenix MS4 2011/2012 Report Year

Pollutant Loading	: Phoenix MS4-Winter Se	eason (Partial sample colle	ected 11/5/11)				
			Pollutant				
	Unit Conversion	Runnoff or R value	Concentration				
Pollutant	Factor	(inches)	(mg/L)*	Area (acres)	Pollutant (lbs		
Oil & Grease (grab)	0.226	0.2052	7.3	32.00	10.83		
TPH (grab)	0.226	0.2052	0.29	32.00	0.43		
E. Coli (grab)	103	0.2052	170	32.00	114,977.66		
BOD	0.226	0.2052	NS	32.00	0.00		
COD	0.226	0.2052	NS	32.00	0.00		
TSS	0.226	0.2052	NS	32.00	0.00		
TDS	0.226	0.2052	NS	32.00	0.00		
Total Nitrogen	0.226	0.2052	NS	32.00	0.00		
TKN	0.226	0.2052	NS	32.00	0.00		
Total Phosphorous	0.226	0.2052	NS	32.00	0.00		
Metals - varies	0.226	0.2052	NS	32.00	0.00		
Drainage Area (acres)	32						
Winter Runoff	0.2052						
Winter Rainfall	0.24						
Percent of Rainfall Runoff	0.9	* E. Coli concentration is in I	oillion colonies				
Percent of Site Impervious	0.95	Simple Method Pollutant Calculation: L=0.226*R*C*A					
Runoff Factor	0.905	Simple Method Bacteria Calculation: L=103*R*C*A					

### Miscellaneous Pollutant Loading Estimate ADOT Phoenix MS4 2011/2012 Report Year

Annual Pol	lutant Loading: Phoenix	<b>MS4- Event Mean Concent</b>	ration		
	Unit Conversion	Runnoff or R value			
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)
BOD	0.226	0.2052	NS	32.00	0.00
COD	0.226	0.2052	NS	32.00	0.00
TSS	0.226	0.2052	NS	32.00	0.00
TDS	0.226	0.2052	NS	32.00	0.00
Total Nitrogen	0.226	0.2052	NS	32.00	0.00
TKN	0.226	0.2052	NS	32.00	0.00
Total Phosphorous	0.226	0.2052	NS	32.00	0.00
Metals - varies	0.226	0.2052	NS	32.00	0.00
Drainage Area (acres)	32				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9	Note: Event Mean Concentra	ation (EMC) is the po	ollutant concentra	ation of flow-
Percent of Site Impervious	0.95	weighted sampling (multiple	aliquots) collected du	uring the course	of a storm.
Runoff Factor	0.905	No flow weighted composite	samples collected/ar	nalyed due to equ	uipment issues



# Miscellaneous Pollutant Loading Estimate ADOT Tucson MS4 2011/2012 Report Year

Pollutant Loading: Tuc	son MS4-Summer Seaso	on (No Sample collected o	due to equipment fail	ure)	
			Pollutant		
	Unit Conversion	Runnoff or R value	Concentration		
Pollutant	Factor	(inches)	(mg/L)	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0	NS	4.80	0.00
TPH (grab)	0.226	0	NS	4.80	0.00
E. Coli (grab)	103	0	NS	4.80	0.00
BOD	0.226	0	NS	4.80	0.00
COD	0.226	0	NS	4.80	0.00
TSS	0.226	0	NS	4.80	0.00
TDS	0.226	0	NS	4.80	0.00
Total Nitrogen	0.226	0	NS	4.80	0.00
TKN	0.226	0	NS	4.80	0.00
Total Phosphorous	0.226	0	NS	4.80	0.00
Metals - varies	0.226	0	NS	4.80	0.00
Drainage Area (acres)	4.8				
Winter Runoff	0				
Winter Rainfall	0				
Percent of Rainfall Runoff	0.9				
Percent of Site Impervious	0.95	Simple Method Pollutant Ca	alculation: L=0.226*R*(	C*A	
		•			

0.905

Simple Method Bacteria Calculation: L=103*R*C*A

Runoff Factor

NS = No Sample

# Miscellaneous Pollutant Loading Estimate ADOT Tucson MS4 2011/2012 Report Year

Pollutant Load	ling: Tucson MS4-Winter	r Season (Partial sample o	collected 11/7/11)		
		-	Pollutant		
	Unit Conversion	Runnoff or R value	Concentration		
Pollutant	Factor	(inches)	(mg/L)*	Area (acres)	Pollutant (lbs)
Oil & Grease (grab)	0.226	0.2052	9.9	4.80	2.20
TPH (grab)	0.226	0.2052	1.8	4.80	0.40
E. Coli (grab)	103	0.2052	ND	4.80	0.00
BOD	0.226	0.2052	NS	4.80	0.00
COD	0.226	0.2052	NS	4.80	0.00
TSS	0.226	0.2052	NS	4.80	0.00
TDS	0.226	0.2052	NS	4.80	0.00
Total Nitrogen	0.226	0.2052	NS	4.80	0.00
TKN	0.226	0.2052	NS	4.80	0.00
Total Phosphorous	0.226	0.2052	NS	4.80	0.00
Metals - varies	0.226	0.2052	NS	4.80	0.00
Drainage Area (acres)	4.8				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9	* E. Coli concentration is in	billion colonies		
Percent of Site Impervious	0.95	Simple Method Pollutant Ca	alculation: L=0.226*R*0	C*A	

Simple Method Bacteria Calculation: L=103*R*C*A

0.905

Runoff Factor

NS = No Sample; ND = Non Detect

# Miscellaneous Pollutant Loading Estimate ADOT Tucson MS4 2011/2012 Report Year

Annual	Pollutant Loading: Tucs	on MS4- Event Mean Cond	entration		
	Unit Conversion	Runnoff or R value			
Pollutant	Factor	(inches)	EMC (mg/L)	Area (acres)	Pollutant (lbs)
BOD	0.226	0.2052	NS	4.80	0.00
COD	0.226	0.2052	NS	4.80	0.00
TSS	0.226	0.2052	NS	4.80	0.00
TDS	0.226	0.2052	NS	4.80	0.00
Total Nitrogen	0.226	0.2052	NS	4.80	0.00
TKN	0.226	0.2052	NS	4.80	0.00
Total Phosphorous	0.226	0.2052	NS	4.80	0.00
Metals - varies	0.226	0.2052	NS	4.80	0.00
Drainage Area (acres)	4.8				
Winter Runoff	0.2052				
Winter Rainfall	0.24				
Percent of Rainfall Runoff	0.9	Note: Event Mean Concentr	ation (EMC) is the po	ollutant concentration of	of flow-weighted
Percent of Site Impervious	0.95	sampling (multiple aliquots)	collected during the c	ourse of a storm.	_
Runoff Factor	0.905	No flow weighted composite	samples collected/ar	nalyed due to equipme	ent issues