December 06, 2011

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4373

Work Order No.: 11K0274
Order Name: Storm Water Site #1

RE: Storm Water Biannual

Dear Beverley Hester,

Turner Laboratories, Inc. received 2 sample(s) on 11/07/2011 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 12/06/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0274
Date Received: 11/07/2011

Order: Storm Water Site #1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11K0274-01	Composite Site #1	Storm Water	11/07/2011 1120
11K0274-02	Grab/Discrete Site #1	Storm Water	11/07/2011 0820

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0274
Date Received: 11/07/2011

Case Narrative

EPA 8081: Recovery of decachlorobiphenyl surrogate was below in-house acceptance limits for the Laboratory Control Sample/Duplicate and the Matrix Spike/Duplicate. The sample recovery for decachlorobiphenyl surrogate was acceptable. Recovery of Dieldrin and Endrin was below in-house acceptance limits for the Matrix Spike/Duplicate. There is insufficient sample volume for re-extraction. Re-analysis confirmed the low recoveries.

EPA 8082: Recovery of Aroclor 1016/1260 was below method acceptance limits for the Quality Control Sample. There is insufficient sample volume for re-extraction. Recovery was acceptable for the Laboratory Control Sample/Duplicate. RPDs for Aroclor 1016/1260 in the Matrix Spike/Duplicate was outside acceptance limits. Recovery was acceptable for the Laboratory Control Sample/Duplicate.

L2	The associated LCS/LCSD recovery was below laboratory acceptance limits.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
M7	Matrix spike recovery was low. Data reported per ADEQ policy 0154.000.
N1	See case narrative.
R1	RPD/RSD exceeded the method acceptance limit. See case narrative.
R6	LCS/LCSD RPD exceeded the method acceptance limit. Recovery met the acceptance criteria.
R9	Sample RPD exceeded the laboratory acceptance limit.
S12	Surrogate recovery was low. Data reported per ADEQ policy 0154.000.
T2	Cited ADHS Licensed method does not contain this analyte as part of the method compound list.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 12/06/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0274
Lab Sample ID: 11K0274-01

Client Sample ID: Composite Site #1
Collection Date/Time: 11/07/2011 1120
Matrix: Storm Water
Order Name: Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	60			mg/L	1	11/11/2011 0840	11/14/2011 1238	RAD
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	11/07/2011 1400	11/08/2011 0010	JM
ICP Total Metals-E200.7								
Arsenic	ND	40		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Barium	130	50		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Beryllium	ND	2.0		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Cadmium	ND	2.0		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Calcium	19000	4000		ug/L	1	11/11/2011 0840	11/14/2011 1238	RAD
Chromium	ND	30		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Copper	87	20		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Magnesium	3100	3000		ug/L	1	11/11/2011 0840	11/14/2011 1238	RAD
Nickel	ND	50		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Silver	ND	10		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
Zinc	230	40		ug/L	1	11/11/2011 0840	11/14/2011 1239	RAD
ICP/MS Total Metals-E200.8								
Antimony	3.1	0.50		ug/L	1	11/14/2011 1430	11/15/2011 1621	RAD
Lead	21	0.50		ug/L	1	11/14/2011 1430	11/15/2011 1621	RAD
Selenium	ND	2.5		ug/L	1	11/14/2011 1430	11/15/2011 1621	RAD
Thallium	ND	0.50		ug/L	1	11/14/2011 1430	11/15/2011 1621	RAD
CVAA Total Mercury-E245.1								
Mercury	ND	1.0		ug/L	1	11/09/2011 1330	11/10/2011 1306	RAD
Anions by Ion Chromatography-E300								
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	1	11/07/2011 1400	11/08/2011 0010	JM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	11/07/2011 1400	11/08/2011 0010	JM
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	11/07/2011 1400	11/08/2011 0010	JM
Total Phosphorous as P-H8190								
Total Phosphorus (as P)	0.43	0.10		mg/L	1	11/21/2011 1100	11/21/2011 1548	EW
Chemical Oxygen Demand-Hach 8000								
Chemical Oxygen Demand	230	20		mg/L	1	11/15/2011 1020	11/15/2011 1700	EW

Turner Laboratories, Inc.

Date: 12/06/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Composite Site #1
Project:	Storm Water Biannual	**Collection Date/Time:**	11/07/2011 1120
Work Order:	11K0274	**Matrix:**	Storm Water
Lab Sample ID:	11K0274-01	**Order Name:**	Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	3.4	0.50		mg/L	1	11/14/2011 0900	11/16/2011 1650	EW
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	120	20	R9	mg/L	1	11/08/2011 1045	11/09/2011 1100	EW
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	180	10		mg/L	1	11/08/2011 1000	11/08/2011 1430	JM
Ammonia as N-SM4500 B,C								
Nitrogen, Ammonia (As N)	0.63	0.50		mg/L	1	11/10/2011 1400	11/10/2011 1710	EW
BOD, 5 day-SM5210 B								
Biochemical Oxygen Demand	25	2.0		mg/L	1	11/09/2011 0730	11/14/2011 0730	JM

Turner Laboratories, Inc.

Date: 12/06/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0274
Lab Sample ID: 11K0274-02

Client Sample ID: Grab/Discrete Site #1
Collection Date/Time: 11/07/2011 0820
Matrix: Storm Water
Order Name: Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
N-Hexane Extractable Material (SGT-HEM)-E 1664A								
Total Petroleum Hydrocarbons	ND	5.00	M2	mg/L	1	11/23/2011 0840	11/23/2011 1600	EW
N-Hexane Extractable Material (HEM)-E1664A								
Oil & Grease	6.40	5.00		mg/L	1	11/14/2011 0830	11/14/2011 1600	EW
Volatile Organic Compounds by GCMS-EPA 624								
1,1,1-Trichloroethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,1,2,2-Tetrachloroethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,1,2-Trichloroethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,1-Dichloroethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,1-Dichloroethene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,2-Dichlorobenzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,2-Dichloroethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,2-Dichloropropane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,3-Dichlorobenzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
1,4-Dichlorobenzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
2-Chloroethylvinylether	ND	10		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Acetone	ND	10	T2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Acrolein	ND	10	M2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Acrylonitrile	ND	10		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Benzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Bromodichloromethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Bromoform	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Bromomethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Carbon tetrachloride	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Chlorobenzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Chloroethane	ND	5.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Chloroform	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Chloromethane	ND	5.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
cis-1,3-Dichloropropene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Dibromochloromethane	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Dichlorodifluoromethane	ND	5.0	T2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Ethylbenzene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Methyl Isobutyl Ketone (MIBK)	ND	10	T2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Methylene chloride	ND	10		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Tetrachloroethene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Tetrahydrofuran	ND	10	T2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Toluene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
trans-1,2-Dichloroethene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
trans-1,3-Dichloropropene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0274
Lab Sample ID: 11K0274-02
Client Sample ID: Grab/Discrete Site #1
Collection Date/Time: 11/07/2011 0820
Matrix: Storm Water
Order Name: Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Trichloroethene	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Trichlorofluoromethane	ND	5.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Vinyl chloride	ND	2.0		ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Xylenes, Total	ND	6.0	T2	ug/L	1	11/09/2011 1834	11/09/2011 2329	KP
Surr: 1,2-Dichloroethane-d4	*97*	*70-130*		*%REC*	*1*	*11/09/2011 1834*	*11/09/2011 2329*	*KP*
Surr: 4-Bromofluorobenzene	*98*	*70-130*		*%REC*	*1*	*11/09/2011 1834*	*11/09/2011 2329*	*KP*
Surr: Fluorobenzene	*100*	*70-130*		*%REC*	*1*	*11/09/2011 1834*	*11/09/2011 2329*	*KP*
Cyanide-SM4500-CN BE								
Cyanide	ND	100		ug/L	1	11/17/2011 0830	11/17/2011 1300	JM
Organochlorine Pesticides-SW8081A								
4,4´-DDD	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
4,4´-DDE	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
4,4´-DDT	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Aldrin	ND	0.097	L2	ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
alpha-BHC	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
alpha-Chlordane	ND	0.097		ug/L	1	11/08/2011 1009	11/12/2011 0250	P/MD
beta-BHC	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
delta-BHC	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Dieldrin	ND	0.097	L2, N1	ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endosulfan I	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endosulfan II	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endosulfan sulfate	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endrin	ND	0.097	L2, N1	ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endrin aldehyde	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Endrin ketone	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
gamma-BHC	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
gamma-Chlordane	ND	0.097		ug/L	1	11/08/2011 1009	11/12/2011 0250	P/MD
Heptachlor	ND	0.097	L2	ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Heptachlor epoxide	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Methoxychlor	ND	0.097		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Toxaphene	ND	0.97		ug/L	1	11/08/2011 1009	11/11/2011 2254	KP
Surr: Tetrachloro-m-xylene	*86*	*39.1-120*		*%REC*	*1*	*11/08/2011 1009*	*11/12/2011 250*	*P/MD*
PCBs-SW8082								
Aroclor 1016	ND	0.98	M7, N1, R6	ug/L	1	11/10/2011 1004	11/22/2011 0147	KP

Turner Laboratories, Inc.

Date: 12/06/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab/Discrete Site #1
Project:	Storm Water Biannual	**Collection Date/Time:**	11/07/2011 0820
Work Order:	11K0274	**Matrix:**	Storm Water
Lab Sample ID:	11K0274-02	**Order Name:**	Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Aroclor 1221	ND	0.98		ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Aroclor 1232	ND	0.98		ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Aroclor 1242	ND	0.98		ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Aroclor 1248	ND	0.98		ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Aroclor 1254	ND	0.98		ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Aroclor 1260	ND	0.98	M7, N1, R6	ug/L	1	11/10/2011 1004	11/22/2011 0147	KP
Surr: Decachlorobiphenyl	*83*	*52.7-155.1*		*%REC*	*1*	*11/10/2011 1004*	*11/22/2011 147*	*KP*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	9.8	M7	ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
1,2-Dichlorobenzene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
1,3-Dichlorobenzene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
1,4-Dichlorobenzene	ND	9.8	M7, R1	ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4,5-Trichlorophenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4,6-Trichlorophenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4-Dichlorophenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4-Dimethylphenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4-Dinitrophenol	ND	49		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,4-Dinitrotoluene	ND	9.8	M7	ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2,6-Dinitrotoluene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Chloronaphthalene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Chlorophenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Methylnaphthalene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Methylphenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Nitroaniline	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
2-Nitrophenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
3,3´-Dichlorobenzidine	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
3,4-Methylphenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
3-Nitroaniline	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Bromophenyl phenyl ether	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Chloro-3-methylphenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Chloroaniline	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Chlorophenyl phenyl ether	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Methylphenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Nitroaniline	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
4-Nitrophenol	ND	49		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Acenaphthene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Acenaphthylene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP

Turner Laboratories, Inc.

Date: 12/06/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab/Discrete Site #1
Project:	Storm Water Biannual	**Collection Date/Time:**	11/07/2011 0820
Work Order:	11K0274	**Matrix:**	Storm Water
Lab Sample ID:	11K0274-02	**Order Name:**	Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Aniline	ND	20		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Anthracene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzo[a]anthracene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzo[a]pyrene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzo[b,k]fluoranthene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzo[g,h,i]perylene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzoic acid	50	49		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Benzyl alcohol	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Bis(2-chloroethoxy)methane	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Bis(2-chloroethyl)ether	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Bis(2-chloroisopropyl)ether	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Bis(2-ethylhexyl)phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Butyl benzyl phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Chrysene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Dibenz[a,h]anthracene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Dibenzofuran	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Diethyl phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Dimethyl phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Di-n-butyl phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Di-n-octyl phthalate	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Fluoranthene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Fluorene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Hexachlorobenzene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Hexachlorobutadiene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Hexachlorocyclopentadiene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Hexachloroethane	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Indeno[1,2,3-cd]pyrene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Isophorone	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Naphthalene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Nitrobenzene	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
N-Nitrosodimethylamine	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
N-Nitrosodiphenylamine	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
N-Nitrosodipropylamine	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Pentachlorophenol	ND	29		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Phenanthrene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Phenol	ND	9.8		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Pyrene	ND	4.9		ug/L	1	11/08/2011 0930	11/15/2011 2136	KP
Surr: 2,4,6-Tribromophenol	*67*	*48.18-103.2*		*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*
Surr: 2-Fluorobiphenyl	*31*	*44.86-97.28*	*S12*	*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*
Surr: 2-Fluorophenol	*26*	*17.76-99.38*		*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*
Surr: 4-Terphenyl-d14	*51*	*38.67-92.68*		*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*
Surr: Nitrobenzene-d5	*42*	*23.73-103.2*		*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*

Turner Laboratories, Inc.

Date: 12/06/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab/Discrete Site #1
Project:	Storm Water Biannual	**Collection Date/Time:**	11/07/2011 0820
Work Order:	11K0274	**Matrix:**	Storm Water
Lab Sample ID:	11K0274-02	**Order Name:**	Storm Water Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: Phenol-d6	*47*	*17.76-99.38*		*%REC*	*1*	*11/08/2011 0930*	*11/15/2011 2136*	*KP*

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 11K0274 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)
CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester
COMPANY NAME: City of Tucson
ADDRESS: PO Box 27210, Tucson AZ 85726-7210
PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)
FAX: 791-4343
SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Hardness	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Cyanide	Metals	Nitrate + Nitrite Sum	Nitrogen, Ammonia as N	Nitrogen, Total Kjeldahl	Phosphorus as P, Total	Orthophosphate by Ion Chromatography	Total Petroleum Hydrocarbons (TPH)	Oil & Grease	Volatile Organic Compounds by 8260 (8021)	Semivolatile Organic Acid Extractables by 8270	Semivolatile Organic Base Neutrals by 8270	PCBs by 8082	Organochlorine Pesticides by SW 8081
Composite	11-7-11	11:20		ST	20	X	X	X	X	X		X	X	X	X	X	X							
Grab/Discrete	11-7-11	8:20		ST	18						X							X	X	X	X	X	X	X

1. RELINQUISHED BY: Eric Ross
Signature: ERIC ROSS
Printed Name: TDOT
Firm: 11-7-11 13:14
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
__X__ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 38
Temperature 3
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Time

4. RECEIVED BY:
Signature
Printed Name: TURNER LABORATORIES, INC.
Firm: 11-7-11 1314
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☑
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☑	Appropriate Head Space	☑
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

Metals; Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Ti, Zn Tl
Cyanide, Metals, VOCs, SVOCs, PCBs, Pesticides; report in ug/L

Sampling Aliquot Form

Enter Site #:	1	Inspector Initials:	ER
Site:	Grant/ Wilson	Date of Sample:	11/07/11
Site Type:	SINGLE FAMILY (SITE 1)	Sample #:	11-1107 SF

Manual Rain Gauge Level (in.) @ Arrival:	0.2	Manual Rain Gauge Level (in.) at Finish:	0.4	
Auto. Rain Gauge Level (in.) at Arrival:	0.12	Auto. Rain Gauge Level (in.) at Finish:	0.33	Aliquot Begin Time
Time of Arrival:	8:15 AM	Grab Sample Time:	8:20:00 AM	8:20:00 AM
Flow at Arrival? (Yes/No)	Yes ☑ No ☐	Time of First Flow:	8:08 AM	
pH Reading:	7.07	Temperature (Deg C):	12.0	
>72 Hours Since Last Measurable Rain?	Yes ☐ No ☑	Date of Last Measurable Rain:	November 5, 2011	

Elapsed Time (min) (Set 1st Sample)	Manual Sampling Enter Depth (in) 0.25 in min	Auto Sampling Flow (cfs)	Value from Rating table or sampler Flow (cfs)	Comments: (See Site Information Worksheet for Depth Measurements at each Sampling Site)
0	2.75		3.84	
20	3.50		6.65	
40	2.00		1.51	
60	2.50		2.98	
80	2.00		1.51	
100	1.50		1.13	
120	1.50		1.13	
140	1.00		0.76	
160	0.50		0.38	
180	0.25		0.19	
240				

Maximum Aliquot Volume taken by Automated Sampler (ml)
2000

Enter time when aliquot was collected		Aliquot Volumes Calculated by Maximum Aliquot	Aliquot Volumes for Lab Analysis (ml)
8:20 AM	Aliquot #1	1188	670
8:40 AM	Aliquot #2	2056	1159
9:00 AM	Aliquot #3	467	263
9:20 AM	Aliquot #4	920	519
9:40 AM	Aliquot #5	467	263
10:00 AM	Aliquot #6	351	198
10:20 AM	Aliquot #7	351	198
10:40 AM	Aliquot #8	234	132
11:00 AM	Aliquot #9	117	66
11:20 AM	Aliquot #10	58	33
Minimum Composite for Lab Analysis is 3500 ml:		6238	3501

Note: If any aliquot volume that is to be taken for Lab Analysis is greater than 1800 ml, the composite sample cannot be taken to the lab for analysis. That is there has not been enough individual samples collected to make a valid flow-weighted composite aliquot. (Example: If any row in the blue column has a note indicating "Collect another sample", the composite can not be taken for analysis untill enough individual samples are collected to remove the note).

ADDITIONAL COMMENTS:

Manual grab and composite samples were collected. Depth levels were measured manually.

November 10, 2011

Chris McNellis
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4238

Work Order No.: 11K0269
Order Name: Storm Water Sample Site #1

RE: Storm Water Once per Season

Dear Chris McNellis,

Turner Laboratories, Inc. received 1 sample(s) on 11/07/2011 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Dawn Weyer
Project Manager

Turner Laboratories, Inc.

Date: 11/10/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 11K0269
Date Received: 11/07/2011

Order: Storm Water Sample Site #1

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11K0269-01	Site #1 Grab/Descrete	Storm Water	11/07/2011 1040

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 11K0269
Date Received: 11/07/2011

Case Narrative

E Value is above quantitation range.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 11/10/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Site #1 Grab/Descrete
Project:	Storm Water Once per Season	**Collection Date/Time:**	11/07/2011 1040
Work Order:	11K0269	**Matrix:**	Storm Water
Lab Sample ID:	11K0269-01	**Order Name:**	Storm Water Sample Site #1

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Coliform & E. Coli, MPN-SM9223B								
E.Coli	2400	1.0	E	MPN/100mL	1	11/07/2011 1205	11/08/2011 1225	EW
Total Coliform	2400	1.0	E	MPN/100mL	1	11/07/2011 1205	11/08/2011 1225	EW

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TURNER LABORATORIES INC.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 11K0269 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	MPN, Total Coliform and E.Coli
Grab/Discrete	11/7/11	10:40		ST		x

1. RELINQUISHED BY: Eric Ross
Signature: ERIC ROSS
Printed Name: COT
Firm: 11/7/11 10:52AM
Date/Time

2. RECEIVED BY: Bev Hester
Signature: BEVERLEY HESTER
Printed Name: COT
Firm: 11/7/11 10:52AM
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
_X_ Email Preliminary Results To: bev.hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Data Validation Report (includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 1
Temperature 9
[X] Wet Ice [ ] Blue Ice

3. RELINQUISHED BY: Bev Hester
Signature: BEVERLEY HESTER
Printed Name: COT
Firm: 11/7/11 11:13A
Date/Time

4. RECEIVED BY: Lucia Santacruz
Signature: Lucia Santacruz
Printed Name: TURNER LABORATORIES, INC.
Firm: 11-7-11 11:13
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	[ ] Yes	[ ] No	Custody Seals	[ ]	Preservation Confirmation	[N]
ADEQ Forms:	[ ] Yes	[ ] No	Container Intact	[Y]	Appropriate Head Space	[N]
Mail ADEQ Forms:	[ ] Yes	[ ] No	COC/Labels Agree	[Y]	Received Within Hold Time	[Y]

April 12, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 12C0506
Order Name: Storm Water Annual

RE: Storm Water Biannual

Dear Beverley Hester,

Turner Laboratories, Inc. received 2 sample(s) on 03/19/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 04/12/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12C0506
Date Received: 03/19/2012

Order: Storm Water Annual

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12C0506-01	Composite Site #2	Storm Water	03/18/2012 1145
12C0506-02	Grab/Discrete Site #2	Storm Water	03/18/2012 0845

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12C0506
Date Received: 03/19/2012

Case Narrative

EPA 8270C: The benzyl alcohol detection in sample 12C0506-02 is likely a contamination. This compound was detected in the method blank less than the PQL.

EPA 8081: The laboratory control sample recovery of surrogate decachlorobiphenyl is below acceptance limits. Recovery of this compound in the sample is acceptable.

E4	Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL).
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M1	Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
N1	See case narrative.
T2	Cited ADHS Licensed method does not contain this analyte as part of the method compound list.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 04/12/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12C0506
Lab Sample ID: 12C0506-01

Client Sample ID: Composite Site #2
Collection Date/Time: 03/18/2012 1145
Matrix: Storm Water
Order Name: Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation								
Hardness, Calcium/Magnesium (As CaCO3)	30			mg/L	1	03/26/2012 1000	03/28/2012 1321	RAD
Nitrate + Nitrite Sum-Calculation								
Nitrate and Nitrite Sum	ND	0.10		mg/L	1	03/19/2012 1500	03/19/2012 1924	JM
ICP Total Metals-E200.7								
Arsenic	ND	40	E8	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Barium	ND	50	E4	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Beryllium	ND	2.0	E8	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Cadmium	ND	2.0	E8	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Calcium	12000	4000		ug/L	1	03/26/2012 1000	03/28/2012 1321	RAD
Chromium	ND	30	E4	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Copper	ND	20	E4	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Magnesium	ND	3000	E4	ug/L	1	03/26/2012 1000	03/28/2012 1321	RAD
Nickel	ND	50	E4	ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
Silver	ND	10		ug/L	1	03/26/2012 1000	03/30/2012 0935	RAD
Zinc	56	40		ug/L	1	03/26/2012 1000	03/28/2012 1322	RAD
ICP/MS Total Metals-E200.8								
Antimony	ND	0.50		ug/L	1	03/26/2012 0830	03/28/2012 1650	RAD
Lead	0.96	0.50		ug/L	1	03/26/2012 0830	03/27/2012 1627	RAD
Selenium	ND	2.5		ug/L	1	03/26/2012 0830	03/28/2012 1650	RAD
Thallium	ND	0.50		ug/L	1	03/26/2012 0830	03/27/2012 1627	RAD
CVAA Total Mercury-E245.1								
Mercury	ND	1.0		ug/L	1	03/22/2012 1155	03/23/2012 0848	RAD
Anions by Ion Chromatography-E300								
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	1	03/19/2012 1500	03/19/2012 1924	JM
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	03/19/2012 1500	03/19/2012 1924	JM
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	03/19/2012 1500	03/19/2012 1924	JM
Total Phosphorous as P-H8190								
Total Phosphorus (as P)	0.32	0.10		mg/L	1	03/21/2012 0900	03/21/2012 1510	EW
Chemical Oxygen Demand-Hach 8000								
Chemical Oxygen Demand	160	20		mg/L	1	03/27/2012 1050	03/27/2012 1709	EW

Turner Laboratories, Inc.

Date: 04/12/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Composite Site #2
Project:	Storm Water Biannual	**Collection Date/Time:**	03/18/2012 1145
Work Order:	12C0506	**Matrix:**	Storm Water
Lab Sample ID:	12C0506-01	**Order Name:**	Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	2.5	0.50		mg/L	1	03/20/2012 1520	03/22/2012 1535	EW
Total Dissolved Solids (Residue, Filterable)-SM2540 C								
Total Dissolved Solids (Residue, Filterable)	160	20		mg/L	1	03/19/2012 1145	03/20/2012 1500	JM
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D								
Total Suspended Solids	15	10		mg/L	1	03/19/2012 1030	03/19/2012 1525	JM
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	0.87	0.50		mg/L	1	03/20/2012 0820	03/20/2012 1140	EW
BOD, 5 day-SM5210 B								
Biochemical Oxygen Demand	37	2.0		mg/L	1	03/20/2012 1000	03/25/2012 1000	JM

Turner Laboratories, Inc.

Date: 04/12/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12C0506
Lab Sample ID: 12C0506-02

Client Sample ID: Grab/Discrete Site #2
Collection Date/Time: 03/18/2012 0845
Matrix: Storm Water
Order Name: Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
N-Hexane Extractable Material (SGT-HEM)-E 1664A								
Total Petroleum Hydrocarbons	ND	5.00		mg/L	1	03/27/2012 0825	03/27/2012 1532	EW
N-Hexane Extractable Material (HEM)-E1664A								
Oil & Grease	ND	5.00		mg/L	1	03/28/2012 0820	03/28/2012 1507	EW
Volatile Organic Compounds by GCMS-EPA 624								
1,1,1-Trichloroethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,1,2,2-Tetrachloroethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,1,2-Trichloroethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,1-Dichloroethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,1-Dichloroethene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,2-Dichlorobenzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,2-Dichloroethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,2-Dichloropropane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,3-Dichlorobenzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
1,4-Dichlorobenzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
2-Chloroethylvinylether	ND	10		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Acetone	29	10	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Acrolein	ND	10	M2, T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Acrylonitrile	ND	10	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Benzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Bromodichloromethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Bromoform	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Bromomethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Carbon tetrachloride	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Chlorobenzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Chloroethane	ND	5.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Chloroform	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Chloromethane	ND	5.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
cis-1,3-Dichloropropene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Dibromochloromethane	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Dichlorodifluoromethane	ND	5.0	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Ethylbenzene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Methyl Isobutyl Ketone (MIBK)	ND	10	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Methylene chloride	ND	10		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Tetrachloroethene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Tetrahydrofuran	ND	10	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Toluene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
trans-1,2-Dichloroethene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
trans-1,3-Dichloropropene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12C0506
Lab Sample ID: 12C0506-02
Client Sample ID: Grab/Discrete Site #2
Collection Date/Time: 03/18/2012 0845
Matrix: Storm Water
Order Name: Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Trichloroethene	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Trichlorofluoromethane	ND	5.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Vinyl chloride	ND	2.0		ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Xylenes, Total	ND	6.0	T2	ug/L	1	03/19/2012 0912	03/20/2012 0019	KP
Surr: 1,2-Dichloroethane-d4	*104*	*70-130*		*%REC*	*1*	*03/19/2012 0912*	*03/20/2012 019*	*KP*
Surr: 4-Bromofluorobenzene	*96*	*70-130*		*%REC*	*1*	*03/19/2012 0912*	*03/20/2012 019*	*KP*
Surr: Fluorobenzene	*100*	*70-130*		*%REC*	*1*	*03/19/2012 0912*	*03/20/2012 019*	*KP*
Cyanide-SM4500-CN BE								
Cyanide	ND	100	E8	ug/L	1	03/26/2012 0900	03/27/2012 0930	JM
Organochlorine Pesticides-SW8081A								
4,4´-DDD	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
4,4´-DDE	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
4,4´-DDT	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Aldrin	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
alpha-BHC	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
alpha-Chlordane	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0717	KP
beta-BHC	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
delta-BHC	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Dieldrin	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endosulfan I	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endosulfan II	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endosulfan sulfate	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endrin	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endrin aldehyde	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Endrin ketone	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
gamma-BHC	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
gamma-Chlordane	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0717	KP
Heptachlor	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Heptachlor epoxide	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Methoxychlor	ND	0.099		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Toxaphene	ND	0.99		ug/L	1	03/20/2012 0900	03/24/2012 0229	KP
Surr: Decachlorobiphenyl	*68*	*51.1-138.5*	*N1*	*%REC*	*1*	*03/20/2012 0900*	*03/24/2012 229*	*KP*
Surr: Tetrachloro-m-xylene	*78*	*39.1-120*		*%REC*	*1*	*03/20/2012 0900*	*03/24/2012 229*	*KP*
PCBs-SW8082								
Aroclor 1016	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Aroclor 1221	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Aroclor 1232	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Aroclor 1242	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP

Turner Laboratories, Inc.

Date: 04/12/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab/Discrete Site #2
Project:	Storm Water Biannual	**Collection Date/Time:**	03/18/2012 0845
Work Order:	12C0506	**Matrix:**	Storm Water
Lab Sample ID:	12C0506-02	**Order Name:**	Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Aroclor 1248	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Aroclor 1254	ND	0.98		ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Aroclor 1260	ND	0.98	M2	ug/L	1	03/22/2012 1639	03/24/2012 1659	KP
Surr: Decachlorobiphenyl	*83*	*52.7-155.1*		*%REC*	*1*	*03/22/2012 1639*	*03/24/2012 1659*	*KP*
Semivolatile Organic Compounds-SW8270C								
1,2,4-Trichlorobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
1,2-Dichlorobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
1,3-Dichlorobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
1,4-Dichlorobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4,5-Trichlorophenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4,6-Trichlorophenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4-Dichlorophenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4-Dimethylphenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4-Dinitrophenol	ND	49		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,4-Dinitrotoluene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2,6-Dinitrotoluene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Chloronaphthalene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Chlorophenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Methylnaphthalene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Methylphenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Nitroaniline	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
2-Nitrophenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
3,3´-Dichlorobenzidine	ND	20	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
3,4-Methylphenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
3-Nitroaniline	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4,6-Dinitro-2-methylphenol	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Bromophenyl phenyl ether	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Chloro-3-methylphenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Chloroaniline	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Chlorophenyl phenyl ether	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Methylphenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Nitroaniline	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
4-Nitrophenol	ND	49	M1	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Acenaphthene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Acenaphthylene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Aniline	ND	20		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Anthracene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Benzo[a]anthracene	ND	4.9	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Benzo[a]pyrene	ND	4.9	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Benzo[b,k]fluoranthene	ND	9.8	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Benzo[g,h,i]perylene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP

Turner Laboratories, Inc.

Date: 04/12/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab/Discrete Site #2
Project:	Storm Water Biannual	**Collection Date/Time:**	03/18/2012 0845
Work Order:	12C0506	**Matrix:**	Storm Water
Lab Sample ID:	12C0506-02	**Order Name:**	Storm Water Annual

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Benzoic acid	55	49		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Benzyl alcohol	6.1	4.9	N1	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Bis(2-chloroethoxy)methane	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Bis(2-chloroethyl)ether	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Bis(2-chloroisopropyl)ether	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Bis(2-ethylhexyl)phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Butyl benzyl phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Chrysene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Dibenz[a,h]anthracene	ND	4.9	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Dibenzofuran	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Diethyl phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Dimethyl phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Di-n-butyl phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Di-n-octyl phthalate	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Fluoranthene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Fluorene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Hexachlorobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Hexachlorobutadiene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Hexachlorocyclopentadiene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Hexachloroethane	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Indeno[1,2,3-cd]pyrene	ND	4.9	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Isophorone	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Naphthalene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Nitrobenzene	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
N-Nitrosodimethylamine	ND	9.8	E8	ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
N-Nitrosodiphenylamine	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
N-Nitrosodipropylamine	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Pentachlorophenol	ND	29	M1	ug/L	1	03/20/2012 0900	04/04/2012 1736	KP
Phenanthrene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Phenol	ND	9.8		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Pyrene	ND	4.9		ug/L	1	03/20/2012 0900	03/30/2012 1737	KP
Surr: 2,4,6-Tribromophenol	*92*	*48.18-103.2*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*
Surr: 2-Fluorobiphenyl	*74*	*44.86-97.28*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*
Surr: 2-Fluorophenol	*38*	*17.76-99.38*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*
Surr: 4-Terphenyl-d14	*81*	*38.67-92.68*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*
Surr: Nitrobenzene-d5	*59*	*23.73-103.2*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*
Surr: Phenol-d6	*91*	*17.76-99.38*		*%REC*	*1*	*03/20/2012 0900*	*03/30/2012 1737*	*KP*

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12C0506 DATE 3-19-2012 PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1 (2) 3, 4, 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, (Bev Hester)

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Hardness	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Cyanide	Metals	Nitrate + Nitrite Sum	Nitrogen, Ammonia as N	Nitrogen, Total Kjeldahl	Phosphorus as P, Total	Orthophosphate by Ion Chromatography	Total Petroleum Hydrocarbons (TPH)	Oil & Grease	Volatile Organic Compounds by 8260	Semivolatile Organic Acid Extractables by 8270	Semivolatile Organic Base Neutrals by 8270	PCBs by 8082	Organochlorine Pesticides by SW 8081
Composite	3-18-12	8:45 AM		ST	20	X	X	X	X	X		X	X	X	X	X	X							
Grab/Discrete	3-18-12	8:45 AM		ST	18						X							X	X	X	X	X	X	X

1. RELINQUISHED BY: Eric Ross
Signature: ERIC ROSS
Printed Name: COT
Firm: 3-19-12 / 8:34 A.M.
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
__X__ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # ____
Bill to: ____

SAMPLE RECEIPT:
Total Containers 37
Temperature 0.0
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm 3-19-12 8:34
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis: ☐ Yes ☐ No	Custody Seals ☐	Preservation Confirmation ☑
ADEQ Forms: ☐ Yes ☐ No	Container Intact ☑	Appropriate Head Space ☑
Mail ADEQ Forms: ☐ Yes ☐ No	COC/Labels Agree ☐	Received Within Hold Time ☑

Metals; Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn
Cyanide, Metals, VOCs, SVOCs, PCBs, Pesticides; report in ug/L

Sampling Aliquot Form

Enter Site #:	2	Inspector Initials:	ER
Site:	Greenlee	Date of Sample:	03/13/12
Site Type:	MULTI-FAMILY (SITE 2)	Sample #:	12-0318 MF

Manual Rain Gauge Level (in.) @ Arrival:		0.2	Manual Rain Gauge Level (in.) at Finish:	0.25	
Auto. Rain Gauge Level (in.) at Arrival:		0.18	uto. Rain Gauge Level (in.) at Finis	0.42	Aliquot Begin Time
Time of Arrival:		8:20 AM	Grab Sample Time:	8:45:00 AM	8:45:00 AM
Flow at Arrival? (Yes/No)		Yes ☐ No ☑	Time of First Flow:	8:23 AM	
pH Reading:		7.97	Temperature (Deg C):	9.3	
>72 Hours Since Last Measurable Rain?		Yes ☑ No ☐	Date of Last Measurable Rain:	February 14, 2012	

Flow Weighted Rain Level (Sample)	Manual Sampling Flow Depth (in.) (Inches)	Flow (cfs)	Auto Sampling Flow (cfs)	Value from Rating Table for Sampling Flow (cfs)	Comments (See Site Information Worksheet for Depth Measurements at each Sampling Site)
0	0.25	0.07		0.07	
20	0.25	0.07		0.07	
40	0.50	0.14		0.14	
60	0.50	0.14		0.14	
80	0.50	0.14		0.14	
100	0.50	0.14		0.14	
120	0.25	0.07		0.07	
140	0.25	0.07		0.07	
160	0.25	0.07		0.07	
180	0.25	0.07		0.07	
240			0.10		

Maximum Aliquot Volume Taken by Automated Sampler (ml)
2000

Date & Time When Aliquot Was Collected		Aliquot Volume Calculated Using Flow Weighted Method	Aliquot Volumes for Lab Analysis (ml)
8:45 AM	Aliquot #1	[illegible]	250
9:05 AM	Aliquot #2	[illegible]	250
9:25 AM	Aliquot #3	[illegible]	500
9:45 AM	Aliquot #4	[illegible]	500
10:05 AM	Aliquot #5	[illegible]	500
10:25 AM	Aliquot #6	[illegible]	500
10:45 AM	Aliquot #7	[illegible]	250
11:05 AM	Aliquot #8	[illegible]	250
11:25 AM	Aliquot #9	[illegible]	250
11:45 AM	Aliquot #10	[illegible]	250
	Minimum Composite for Lab Analysis is 3500 ml:	[illegible]	3500

Note: If any aliquot volume that is to be taken for Lab Analysis is greater than 1800 ml, the composite sample cannot be taken to the lab for analysis. That is there has not been enough individual samples collected to make a valid flow-weighted composite aliquot. (Example: If any row in the blue column has a note indicating "Collect another sample", the composite can not be taken for analysis untill enough individual samples are collected to remove the note).

ADDITIONAL COMMENTS:

Manual grab and composite samples were collected. Depth levels were measured manually.

March 28, 2012

Chris McNellis
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4238

Work Order No.: 12C0503
Order Name: Storm Water Once per Season

RE: Storm Water Once per Season

Dear Chris McNellis,

Turner Laboratories, Inc. received 1 sample(s) on 03/18/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Dawn Weyer
Project Manager

Turner Laboratories, Inc.

Date: 03/28/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 12C0503
Date Received: 03/18/2012

Order: Storm Water Once per Season

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12C0503-01	Site #2 Grab/Descrete	Storm Water	03/18/2012 0845

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 12C0503
Date Received: 03/18/2012

Case Narrative

E Value is above quantitation range.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 03/28/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Site #2 Grab/Descrete
Project:	Storm Water Once per Season	**Collection Date/Time:**	03/18/2012 0845
Work Order:	12C0503	**Matrix:**	Storm Water
Lab Sample ID:	12C0503-01	**Order Name:**	Storm Water Once per Season

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Coliform & E. Coli, MPN-SM9223B								
E.Coli	87	1.0		MPN/100mL	1	03/18/2012 1230	03/19/2012 1325	EW
Total Coliform	2400	1.0	E	MPN/100mL	1	03/18/2012 1230	03/19/2012 1325	EW

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12C0503 DATE 3-18-2012 PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, (2) 3, 4, 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, (Bev Hester)

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	MPN, Total Coliform and E.Coli
Grab/Discrete	3-18-12	8:45AM		ST	1	x

1. RELINQUISHED BY: Eric Ross
Signature
Printed Name ERIC ROSS
Firm COT
Date/Time 3-18-12 12:30

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
_X_ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (includes All Raw Data)
Add 10% to Invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # ____
Bill to: ____

SAMPLE RECEIPT:
Total Containers 1
Temperature 20
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Date/Time

4. RECEIVED BY: [illegible]
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm 3/18-12 12:30
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation ☐
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☐	Appropriate Head Space ☐
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☐	Received Within Hold Time ☐

January 05, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 11L0395
Order Name: Site #3

RE: Storm Water Biannual

Dear Beverley Hester,

Turner Laboratories, Inc. received 2 sample(s) on 12/12/2011 for the analyses presented in the following report.

The attached report has been revised. Please refer to the Case Narrative page for an explanation of the changes. We apologize for any inconvenience this may have caused you.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,
Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Date Received: 12/12/2011

Order: Site #3

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11L0395-01	Composite Site #3	Storm Water	12/12/2011 1030
11L0395-02	Grab/Discrete Site #3	Storm Water	12/12/2011 1030

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Date Received: 12/12/2011

Case Narrative

This report is being revised on 01/05/2012 to include 1,2-diphenylhydrazine by EPA 8270C.

The ammonia and total Kjeldahl nitrogen analyses were performed by Accutest Laboratory in San Jose, CA.

EPA 8081: Recovery in the Laboratory Control Sample was below acceptance limits. The Laboratory Control Sample Duplicate was acceptable. The LCS/LCSD RPD is above acceptance limits. Recovery in the Matrix Spike was below acceptance limits for Endrin and DCB surrogate. The Matrix Spike Duplicate was acceptable. Re-analysis confirms the low recoveries. There is no additional sample available for re-extraction.

E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
M6	Matrix spike recovery was high. Date reported per ADEQ policy 0154.000.
N1	See case narrative.
R1	RPD/RSD exceeded the method acceptance limit. See case narrative.
S12	Surrogate recovery was low. Data reported per ADEQ policy 0154.000.
S8	The analysis of the sample required a dilution such that the surrogate recovery does not provide useful information. The associated LCS/LCSD recovery was acceptable.
T2	Cited ADHS Licensed method does not contain this analyte as part of the method compound list.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-01

Client Sample ID: Composite Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	23				mg/L	1	12/20/2011 0905	12/21/2011 1631	RAD
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND	0.0015	0.10		mg/L	1	12/13/2011 1000	12/13/2011 1637	JM
ICP Total Metals-E200.7									
Arsenic	ND	4.8	40		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Barium	60	0.15	50		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Beryllium	ND	0.19	2.0		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Cadmium	ND	0.31	2.0		ug/L	1	12/20/2011 0905	12/22/2011 1203	RAD
Calcium	9400	36	4000		ug/L	1	12/20/2011 0905	12/21/2011 1631	RAD
Chromium	ND	0.61	30		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Copper	61	0.88	20		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Magnesium	ND	150	3000		ug/L	1	12/20/2011 0905	12/21/2011 1631	RAD
Nickel	ND	1.1	50		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Silver	ND	0.46	10		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
Zinc	240	1.1	40		ug/L	1	12/20/2011 0905	12/21/2011 1632	RAD
ICP/MS Total Metals-E200.8									
Antimony	3.3	0.0038	0.50		ug/L	1	12/13/2011 1000	12/15/2011 1346	RAD
Lead	19	0.0046	0.50		ug/L	1	12/13/2011 1000	12/15/2011 1346	RAD
Selenium	ND	0.062	2.5		ug/L	1	12/13/2011 1000	12/15/2011 1346	RAD
Thallium	ND	0.0036	0.50		ug/L	1	12/13/2011 1000	12/15/2011 1346	RAD
CVAA Total Mercury-E245.1									
Mercury	ND	0.014	1.0		ug/L	1	12/19/2011 1115	12/20/2011 1332	GW
Anions by Ion Chromatography-E300									
Nitrogen, Nitrate (As N)	ND	0.0031	1.0		mg/L	1	12/13/2011 1000	12/13/2011 1637	JM
Nitrogen, Nitrite (As N)	ND	0.0015	0.10		mg/L	1	12/13/2011 1000	12/13/2011 1637	JM
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.045	0.50		mg/L	1	12/13/2011 1000	12/13/2011 1637	JM
Total Phosphorous as P-H8190									
Total Phosphorus (as P)	0.19	0.022	0.10		mg/L	1	12/14/2011 1025	12/14/2011 1500	EW

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-01

Client Sample ID: Composite Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chemical Oxygen Demand-Hach 8000									
Chemical Oxygen Demand	140	6.5	20		mg/L	1	12/15/2011 0930	12/15/2011 1600	EW
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	33		20		mg/L	1	12/15/2011 0930	12/16/2011 1100	JM
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	86		10		mg/L	1	12/14/2011 1300	12/15/2011 0920	JM
BOD, 5 day-SM5210 B									
Biochemical Oxygen Demand	20		2.0		mg/L	1	12/14/2011 0930	12/19/2011 0930	JM

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-02

Client Sample ID: Grab/Discrete Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
N-Hexane Extractable Material (SGT-HEM)-E 1664A									
Total Petroleum Hydrocarbons	8.00		5.00		mg/L	1	12/29/2011 1300	12/29/2011 1633	EW
N-Hexane Extractable Material (HEM)-E1664A									
Oil & Grease	7.40	0.570	5.00		mg/L	1	12/30/2011 0825	12/30/2011 1603	EW
Volatile Organic Compounds by GCMS-EPA 624									
1,1,1-Trichloroethane	ND	0.23	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,1,2,2-Tetrachloroethane	ND	0.50	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,1,2-Trichloroethane	ND	0.32	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,1-Dichloroethane	ND	0.17	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,1-Dichloroethene	ND	0.28	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,2-Dichlorobenzene	ND	0.48	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,2-Dichloroethane	ND	0.21	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,2-Dichloropropane	ND	0.0	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,3-Dichlorobenzene	ND	0.35	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
1,4-Dichlorobenzene	ND	0.41	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
2-Chloroethylvinylether	ND	0.31	10		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Acetone	ND	2.0	10	T2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Acrolein	ND	0.0	10	M2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Acrylonitrile	ND	0.92	10		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Benzene	ND	0.25	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Bromodichloromethane	ND	0.20	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Bromoform	ND	0.33	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Bromomethane	ND	0.21	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Carbon tetrachloride	ND	0.18	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Chlorobenzene	ND	0.24	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Chloroethane	ND	0.17	5.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Chloroform	ND	0.19	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Chloromethane	ND	0.28	5.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
cis-1,3-Dichloropropene	ND	0.30	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Dibromochloromethane	ND	0.21	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Dichlorodifluoromethane	ND	0.23	5.0	T2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Ethylbenzene	ND	0.24	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Methyl Isobutyl Ketone (MIBK)	ND	0.0	10	T2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Methylene chloride	ND	0.28	10		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Tetrachloroethene	ND	0.29	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Tetrahydrofuran	ND	1.6	10	T2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Toluene	ND	0.22	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-02

Client Sample ID: Grab/Discrete Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
trans-1,2-Dichloroethene	ND	0.23	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
trans-1,3-Dichloropropene	ND	0.17	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Trichloroethene	ND	0.19	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Trichlorofluoromethane	ND	0.0	5.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Vinyl chloride	ND	0.32	2.0		ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Xylenes, Total	ND	0.63	6.0	T2	ug/L	1	12/13/2011 1708	12/13/2011 2300	KP
Surr: 1,2-Dichloroethane-d4	*105*	*70-130*			*%REC*	*1*	*12/13/2011 1708*	*12/13/2011 2300*	*KP*
Surr: 4-Bromofluorobenzene	*100*	*70-130*			*%REC*	*1*	*12/13/2011 1708*	*12/13/2011 2300*	*KP*
Surr: Fluorobenzene	*105*	*70-130*			*%REC*	*1*	*12/13/2011 1708*	*12/13/2011 2300*	*KP*
Cyanide-SM4500-CN BE									
Cyanide	ND	14	100		ug/L	1	12/20/2011 0900	12/21/2011 0745	JM
Organochlorine Pesticides-SW8081A									
4,4´-DDD	ND	0.0098	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
4,4´-DDE	ND	0.0069	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
4,4´-DDT	ND	0.0029	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Aldrin	ND	0.0098	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
alpha-BHC	ND	0.020	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
alpha-Chlordane	ND	0.0058	0.098		ug/L	1	12/19/2011 0830	12/22/2011 0420	kp
beta-BHC	ND	0.020	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
delta-BHC	ND	0.020	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Dieldrin	ND	0.0049	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endosulfan I	ND	0.0098	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endosulfan II	ND	0.029	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endosulfan sulfate	ND	0.088	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endrin	ND	0.0059	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endrin aldehyde	ND	0.0049	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Endrin ketone	ND		0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
gamma-BHC	ND	0.0098	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
gamma-Chlordane	ND	0.0076	0.098		ug/L	1	12/19/2011 0830	12/22/2011 0420	kp
Heptachlor	ND	0.020	0.098	N1	ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Heptachlor epoxide	ND	0.020	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Methoxychlor	ND	0.0098	0.098		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Toxaphene	ND		0.98		ug/L	1	12/19/2011 0830	12/21/2011 2146	kp
Surr: Decachlorobiphenyl	*56*	*51.1-138.5*	*N1*		*%REC*	*1*	*12/19/2011 0830*	*12/22/2011 420*	*kp*
Surr: Tetrachloro-m-xylene	*60*	*39.1-120*	*N1*		*%REC*	*1*	*12/19/2011 0830*	*12/21/2011 2146*	*kp*

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-02

Client Sample ID: Grab/Discrete Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
PCBs-SW8082									
Aroclor 1016	ND	0.089	0.97	M6, R1	ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1221	ND		0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1232	ND		0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1242	ND		0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1248	ND		0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1254	ND		0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Aroclor 1260	ND	0.060	0.97		ug/L	1	12/15/2011 0830	12/22/2011 1500	kp
Surr: Decachlorobiphenyl	*36*	*52.7-155.1*	*S12*		*%REC*	*1*	*12/15/2011 0830*	*12/22/2011 1500*	*kp*
Semivolatile Organic Compounds-SW8270C									
1,2,4-Trichlorobenzene	ND	1.7	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
1,2-Dichlorobenzene	ND	1.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
1,2-Diphenylhydrazine	ND		97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
1,3-Dichlorobenzene	ND	1.2	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
1,4-Dichlorobenzene	ND	2.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4,5-Trichlorophenol	ND	5.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4,6-Trichlorophenol	ND	8.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4-Dichlorophenol	ND	7.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4-Dimethylphenol	ND	2.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4-Dinitrophenol	ND	14	480		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,4-Dinitrotoluene	ND	2.1	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2,6-Dinitrotoluene	ND	1.8	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Chloronaphthalene	ND	2.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Chlorophenol	ND	9.2	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Methylnaphthalene	ND	1.4	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Methylphenol	ND	3.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Nitroaniline	ND	1.6	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
2-Nitrophenol	ND	7.3	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
3,3´-Dichlorobenzidine	ND	11	190	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
3,4-Methylphenol	ND		97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
3-Nitroaniline	ND	1.4	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4,6-Dinitro-2-methylphenol	ND	12	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Bromophenyl phenyl ether	ND	2.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Chloro-3-methylphenol	ND	4.1	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Chloroaniline	ND	2.2	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Chlorophenyl phenyl ether	ND	2.3	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-02

Client Sample ID: Grab/Discrete Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
4-Methylphenol	ND	3.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Nitroaniline	ND	5.9	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
4-Nitrophenol	ND	5.1	480		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Acenaphthene	ND	5.1	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Acenaphthylene	ND	5.0	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Aniline	ND	3.2	190		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Anthracene	ND	5.3	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzo[a]anthracene	ND	6.3	48	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzo[a]pyrene	ND	5.0	48	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzo[b,k]fluoranthene	ND	13	97	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzo[g,h,i]perylene	ND	7.4	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzoic acid	ND	14	480		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Benzyl alcohol	ND	4.3	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Bis(2-chloroethoxy)methane	ND	8.7	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Bis(2-chloroethyl)ether	ND	1.6	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Bis(2-chloroisopropyl)ether	ND	2.0	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Bis(2-ethylhexyl)phthalate	ND	20	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Butyl benzyl phthalate	ND	6.9	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Chrysene	ND	2.5	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Dibenz[a,h]anthracene	ND	3.7	48	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Dibenzofuran	ND	1.4	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Diethyl phthalate	ND	2.3	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Dimethyl phthalate	ND	3.2	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Di-n-butyl phthalate	ND	18	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Di-n-octyl phthalate	ND	4.5	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Fluoranthene	ND	5.9	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Fluorene	ND	5.8	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Hexachlorobenzene	ND	7.6	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Hexachlorobutadiene	ND	2.1	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Hexachlorocyclopentadiene	ND	9.7	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Hexachloroethane	ND	2.2	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Indeno[1,2,3-cd]pyrene	ND	6.9	48	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Isophorone	ND	1.8	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Naphthalene	ND	5.6	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Nitrobenzene	ND	3.0	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
N-Nitrosodimethylamine	ND	1.7	97	E8	ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
N-Nitrosodiphenylamine	ND	7.2	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
N-Nitrosodipropylamine	ND	2.4	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Pentachlorophenol	ND	9.2	290		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Phenanthrene	ND	4.8	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Phenol	ND	19	97		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP
Pyrene	ND	5.8	48		ug/L	1	12/14/2011 0930	12/23/2011 1828	KP

Turner Laboratories, Inc.

Date: 01/05/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0395
Lab Sample ID: 11L0395-02

Client Sample ID: Grab/Discrete Site #3
Collection Date/Time: 12/12/2011 1030
Matrix: Storm Water
Order Name: Site #3

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Surr: 2,4,6-Tribromophenol	*85*	*48.18-103.2*	*S8*		*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*
Surr: 2-Fluorobiphenyl	*73*	*44.86-97.28*			*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*
Surr: 2-Fluorophenol	*26*	*17.76-99.38*	*S8*		*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*
Surr: 4-Terphenyl-d14	*59*	*38.67-92.68*			*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*
Surr: Nitrobenzene-d5	*73*	*23.73-103.2*			*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*
Surr: Phenol-d6	*34*	*17.76-99.38*	*S8*		*%REC*	*1*	*12/14/2011 0930*	*12/23/2011 1828*	*KP*

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1110395 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)
CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester
COMPANY NAME: City of Tucson
ADDRESS: PO Box 27210, Tucson AZ 85726-7210
PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)
FAX: 791-4343
SAMPLER'S SIGNATURE: C McNellis

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Hardness	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Cyanide	Metals	Nitrate + Nitrite Sum	Nitrogen, Ammonia as N	Nitrogen, Total Kjeldahl	Phosphorus as P, Total	Orthophosphate by Ion Chromatography	Total Petroleum Hydrocarbons (TPH)	Oil & Grease	Volatile Organic Compounds by 8260	Semivolatile Organic Acid Extractables by 8270	Semivolatile Organic Base Neutrals by 8270	PCBs by 8082	Organochlorine Pesticides by SW 8081
Composite	12/12	10:30 AM		ST	20	X	X	X	X	X		X	X	X	X	X	X							
Grab/Discrete	12/12	10:30 AM		ST	15						X							X	X	X	X	X	X	X

1. RELINQUISHED BY: C McNellis
Signature: C McNellis
Printed Name: COT TDOT
Firm: 12/12/11 2:50pm
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
__X__ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 38
Temperature 1
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
12-12-11 1450
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes ☐ No	Custody Seals	☐	Preservation Confirmation	☒
ADEQ Forms:	☐ Yes ☐ No	Container Intact	☒	Appropriate Head Space	☒
Mail ADEQ Forms:	☐ Yes ☐ No	COC/Labels Agree	☐	Received Within Hold Time	☒

Metals; Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn
Cyanide, Metals, VOCs, SVOCs, PCBs, Pesticides; report in ug/L

Northern California
ACCUTEST
LABORATORIES

12/30/11

Technical Report for

Turner Laboratories, Inc.

Subcontract Order - Turner Laboratories, Inc.

11L0395

Accutest Job Number: C19549

Sampling Date: 12/12/11

Report to:

Turner Laboratories, Inc.
2445 N. Coyote Drive Suite #104
Tucson, AZ 85745
tgarcia@turnerlabs.com

ATTN: Terri Garcia

Total number of pages in report: 13

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

Client Service contact: Beth Proffitt 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Test results relate only to samples analyzed.

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Sample Summary

Turner Laboratories, Inc.

Job No: C19549

Subcontract Order - Turner Laboratories, Inc.
Project No: 11L0395

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C19549-1	12/12/11	10:30		12/22/11	AQ	Water	11L0395-01

Northern California
ACCUTEST
LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	11L0395-01		
Lab Sample ID:	C19549-1	**Date Sampled:**	12/12/11
Matrix:	AQ - Water	**Date Received:**	12/22/11
		Percent Solids:	n/a
Project:	Subcontract Order - Turner Laboratories, Inc.		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	<1.0	1.0	mg/l	1	12/29/11	EB	SM18 4500 NH3F/G
Nitrogen, Total Kjeldahl	0.58	0.20	mg/l	1	12/29/11	RL	SM18 4500 NH3F

RL = Reporting Limit

Northern California
ACCUTEST
LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

C19549

SUBCONTRACT ORDER

Turner Laboratories, Inc.

11L0395

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Turner Laboratories, Inc.	Accutest Laboratories
2445 N. Coyote Drive, Ste #104	2105 Lundy Ave
Tucson, AZ 85745	San Jose, CA 95131
Phone: 520.882.5880	Phone :(408) 588-0200
Fax: 520.882.9788	Fax:
Project Manager: Terri Garcia	

Analysis	Expires	Comments
Sample ID: 11L0395-01 Ground Water Sampled:12/12/2011 10:30		
Nitrogen, Total Kjeldahl	01/09/2012 10:30	
Nitrogen, Ammonia as N	01/09/2012 10:30	
Containers Supplied:		
500 mL HDPE, H2SO4 (E		

Temp | 5.1 to 1 = 5.2

Released By	Date	Received By	Date
12-21-11	1415		12/22/11 1:50

Page 1 of 1

C19549: Chain of Custody
Page 1 of 2

C19549

C19549: Chain of Custody
Page 2 of 2

Accutest Laboratories Northern California Sample Receiving Check List Job# : C19549 Initial: LS

Review Chain of Custody — Chain of Custody is to be complete and legible.

- Are these regulatory (NPDES) samples? CWA — Yes / No
- Is pH requested? — Yes / No
  - Was Client informed that hold time is 15 min? Yes / No — Continue Yes / No
  - Was ortho-Phosphate filtered with in 15 min? Yes / No — Continue Yes / No
- Are sample within hold time? — Yes / No
  - Are sample in danger of exceeding hold-time — Yes / No
- Existing Client? Yes / No — Existing Project? Yes / No
  - If No: Is Report to info complete and legible, including:
    - deliverable Name Address phone e-mail
    - Is Bill to info complete and legible, including:
    - PO# Credit card Contact address phone e-mail
    - Is Contact and/or Project Manager identified, including:
    - phone e-mail
    - Project name / number
- Special requirements? — Yes / No
- Sample IDs / date & time of collection provided? — Yes / No
- Is Matrix listed and correct? — Yes / No
- Analyses listed, we do, or client has authorized a subcontract? — Yes / No
- Chain is signed and dated by both client and sample custodian? — Yes / No
- TAT requested available? Yes / No — Approved by PM

Review Coolers: 1 - cooler

- Were all Coolers temperatures measured at ≤6°C? 5.1 + 0.1 = 5.2°C — Yes / No
  - If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left
- Are samples on ice? — Yes / No

Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

- Shipment Received Method FedEx
- Custody Seals: Present: Yes / No — If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- Chain matches bottle labels? Yes / No — Sample bottle intact? Yes / No
- Is there enough sample volume in proper bottle for requested analyses? — Yes / No
- Proper Preservatives? Yes / No
  - Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.
- Headspace-VOAs? Greater than 6mm in diameter — Yes / No
  - List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues
-1	PH<2	

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

Northern California
ACCUTEST
LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19549
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Ammonia	GP3349/GN7322	1.0	0.0	mg/l	8.22	8.1	98.4	75-125%
Nitrogen, Total Kjeldahl	GP3354/GN7330	0.20	0.0	mg/l	8.22	8.0	97.5	75-125%

Associated Samples:
Batch GP3349: C19549-1
Batch GP3354: C19549-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19549
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Nitrogen, Ammonia	GP3349/GN7322	mg/l	8.22	8.1	0.6	25%
Nitrogen, Total Kjeldahl	GP3354/GN7330	mg/l	8.22	7.9	1.8	

Associated Samples:
Batch GP3349: C19549-1
Batch GP3354: C19549-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19549
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Total Kjeldahl	GP3354/GN7330	C19543-1	mg/l	0.0	5.0	4.9	97.5	75-125%

Associated Samples:
Batch GP3354: C19549-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19549
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Total Kjeldahl	GP3354/GN7330	C19543-1	mg/l	0.0	5.0	4.65	4.8	

Associated Samples:
Batch GP3354: C19549-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Northern California
ACCUTEST LABORATORIES

12/30/11

Technical Report for

Turner Laboratories, Inc.

Subcontract Order - Turner Laboratories, Inc.

11L0398

Accutest Job Number: C19550

Sampling Date: 12/12/11

Report to:

Turner Laboratories, Inc.
2445 N. Coyote Drive Suite #104
Tucson, AZ 85745
tgarcia@turnerlabs.com

ATTN: Terri Garcia

Total number of pages in report: 14

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Kesavalu M. Bagawandoss, Ph.D., J.D., Lab Director

Client Service contact: Beth Proffitt 408-588-0200

Certifications: CA (08258CA) AZ (AZ0762) DoD/ISO/IEC 17025:2005 (L2242)

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Section 4: General Chemistry - QC Data Summaries **10**

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4.2: Blank Spike Duplicate Results Summary 12

4.3: Matrix Spike Results Summary 13

4.4: Matrix Spike Duplicate Results Summary 14

Sample Summary

Turner Laboratories, Inc.

Job No: C19550

Subcontract Order - Turner Laboratories, Inc.
Project No: 11L0398

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C19550-1	12/12/11	11:21		12/22/11	AQ	Water	11L0398-01
C19550-2	12/12/11	11:48		12/22/11	AQ	Water	11L0398-02

Northern California
ACCUTEST
LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	11L0398-01		
Lab Sample ID:	C19550-1	**Date Sampled:**	12/12/11
Matrix:	AQ - Water	**Date Received:**	12/22/11
		Percent Solids:	n/a
Project:	Subcontract Order - Turner Laboratories, Inc.		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Total Kjeldahl	<0.20	0.20	mg/l	1	12/29/11	RL	SM18 4500 NH3F

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	11L0398-02		
Lab Sample ID:	C19550-2	**Date Sampled:**	12/12/11
Matrix:	AQ - Water	**Date Received:**	12/22/11
		Percent Solids:	n/a
Project:	Subcontract Order - Turner Laboratories, Inc.		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Total Kjeldahl	9.1	0.20	mg/l	1	12/29/11	RL	SM18 4500 NH3F

RL = Reporting Limit

Northern California
ACCUTEST
LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Arizona Qualifiers
- Chain of Custody

C19550

SUBCONTRACT ORDER

Turner Laboratories, Inc.

11L0398

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Turner Laboratories, Inc.	Accutest Laboratories
2445 N. Coyote Drive, Ste #104	2105 Lundy Ave
Tucson, AZ 85745	San Jose, CA 95131
Phone: 520.882.5880	Phone :(408) 588-0200
Fax: 520.882.9788	Fax:
Project Manager: Terri Garcia	

Analysis	Expires	Comments
-1 **Sample ID: 11L0398-01 Ground Water Sampled:12/12/2011 11:21**		
Nitrogen, Total Kjeldahl	01/09/2012 11:21	
Containers Supplied:		
250 mL HDPE, H2SO4 (E		
-2 **Sample ID: 11L0398-02 Waste Water Sampled:12/12/2011 11:48**		
Nitrogen, Total Kjeldahl	01/09/2012 11:48	
Containers Supplied:		
250 mL HDPE, H2SO4 (C		

Temp 5.1 to 1 = 5.9°C

Released By	Date	Received By	Date
	12.21.11 1415		12/22/11 1:50
Released By	Date	Received By	Date

Page 1 of 1

C19550: Chain of Custody
Page 1 of 2

C19550

C19550: Chain of Custody
Page 2 of 2

Accutest Laboratories Northern California Sample Receiving Check List

Job# : C19550 Initial: LS

Review Chain of Custody Chain of Custody is to be complete and legible.

- Are these regulatory (NPDES) samples? CWA — Yes / No
- Is pH requested? — Yes / No
  - Was Client informed that hold time is 15 min? Yes / No — Continue Yes / No
  - Was ortho-Phosphate filtered with in 15 min? Yes / No — Continue Yes / No
- Are sample within hold time? — Yes / No
  - Are sample in danger of exceeding hold-time — Yes / No
- Existing Client? Yes / No — Existing Project? Yes / No
  - If No: Is Report to info complete and legible, including:
    - deliverable Name Address phone e-mail
    - Is Bill to info complete and legible, including:
    - PO# Credit card Contact address phone e-mail
    - Is Contact and/or Project Manager identified, including:
    - phone e-mail
    - Project name / number
- Special requirements? — Yes / No
- Sample IDs / date & time of collection provided? — Yes / No
- Is Matrix listed and correct? — Yes / No
- Analyses listed, we do, or client has authorized a subcontract? — Yes / No
- Chain is signed and dated by both client and sample custodian? — Yes / No
- TAT requested available? Yes / No — Approved by PM

Review Coolers: 1 - cooler

- Were all Coolers temperatures measured at ≤6°C? 5.1 + 0.1 = 5.2°C — Yes / No
  - If cooler is outside the ≤6°C; note down the affected bottles in that cooler on the left
- Are samples on Ice? — Yes / No

Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

- Shipment Received Method FedEx
- Custody Seals: Present: Yes / No — If Yes; Unbroken: Yes / No

Review of Sample Bottles: If you answer no, explain to the side

- Chain matches bottle labels? Yes / No — Sample bottle intact? Yes / No
- Is there enough sample volume in proper bottle for requested analyses? — Yes / No
- Proper Preservatives? Yes / No
  - Check pH on preserved samples except 1664, 625, 8270 and VOAs; make notes on left.
- Headspace-VOAs? Greater than 6mm in diameter — Yes / No
  - List sample ID and affected container

Client Sample ID	pH Check	Other Comments/Issues
-1	PH<7	
-2	PH<2	

Non-Compliance issues and discrepancies on the COC are forwarded to Project Management

Northern California
ACCUTEST
LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19550
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Total Kjeldahl	GP3354/GN7330	0.20	0.0	mg/l	8.22	8.0	97.5	75-125%

Associated Samples:
Batch GP3354: C19550-1, C19550-2
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19550
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Nitrogen, Total Kjeldahl	GP3354/GN7330	mg/l	8.22	7.9	1.8	

Associated Samples:
Batch GP3354: C19550-1, C19550-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19550
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Total Kjeldahl	GP3354/GN7330	C19543-1	mg/l	0.0	5.0	4.9	97.5	75-125%

Associated Samples:
Batch GP3354: C19550-1, C19550-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C19550
Account: TLABSAZT - Turner Laboratories, Inc.
Project: Subcontract Order - Turner Laboratories, Inc.

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Total Kjeldahl	GP3354/GN7330	C19543-1	mg/l	0.0	5.0	4.65	4.8	

Associated Samples:
Batch GP3354: C19550-1, C19550-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

December 15, 2011

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4373

Work Order No.: 11L0391
Order Name: Site #3

RE: Storm Water Biannual

Dear Beverley Hester,

Turner Laboratories, Inc. received 1 sample(s) on 12/12/2011 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Dawn Weyer
Project Manager

Turner Laboratories, Inc.

Date: 12/15/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0391
Date Received: 12/12/2011

Order: Site #3

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11L0391-01	Grab / Discrete	Storm Water	12/12/2011 1050

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11L0391
Date Received: 12/12/2011

Case Narrative

E Value is above quantitation range.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 12/15/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab / Discrete
Project:	Storm Water Biannual	**Collection Date/Time:**	12/12/2011 1050
Work Order:	11L0391	**Matrix:**	Storm Water
Lab Sample ID:	11L0391-01	**Order Name:**	Site #3

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Coliform & E. Coli, MPN-SM9223B								
E.Coli	770	1.0		MPN/100mL	1	12/12/2011 1350	12/13/2011 1425	EW
Total Coliform	2400	1.0	E	MPN/100mL	1	12/12/2011 1350	12/13/2011 1425	EW

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1110391 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: C M Nellis

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	MPN, Total Coliform and E.Coli
Grab/Discrete	12/12	10:50A		ST	1	X

1. RELINQUISHED BY: C M Nellis
Signature
C M Nellis
Printed Name
COT TDOT
Firm
12/12 11:55 Am
Date/Time

2. RECEIVED BY: Bev
Signature
BEVERLEY HESTER
Printed Name
COT
Firm
Date/Time 12/12/11 11:55A

3. RELINQUISHED BY: Bev
Signature
BEVERLEY HESTER
Printed Name
COT
Firm
Time 12/12/11 1:32p

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
12.12.11 132
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
__X__ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 1
Temperature 6
☑ Wet Ice ☐ Blue Ice

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☐
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☑	Appropriate Head Space	☑
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

December 12, 2011

Catesby Suter
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6624
FAX (520) 791-4238

Work Order No.: 11K0407
Order Name: Storm Water Site #4

RE: Storm Water Biannual

Dear Catesby Suter,

Turner Laboratories, Inc. received 2 sample(s) on 11/13/2011 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Date Received: 11/13/2011

Order: Storm Water Site #4

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11K0407-01	Composite Site #4	Storm Water	11/13/2011 0914
11K0407-02	Grab/Discrete Site #4	Storm Water	11/13/2011 0914

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Date Received: 11/13/2011

Case Narrative

EPA 8270C: Recovery of surrogate 2-fluorobiphenyl was below in-laboratory acceptance limits in the Laboratory Control Sample. There is insufficient sample available for re-extraction. Re-analysis of the extract confirms the low recovery. Recovery in the Laboratory Control Sample Duplicate was acceptable.

D5	Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
L2	The associated LCS/LCSD recovery was below laboratory acceptance limits.
M4	The analysis of the spiked sample required a dilution such that the calculation does not provide useful information. The associated LCS/LCSD recovery was acceptable.
N1	See case narrative.
S6	Surrogate recovery was below laboratory and method acceptance limits. Reextraction and/or reanalysis confirms low recovery caused by matrix effect.
S8	The analysis of the sample required a dilution such that the surrogate recovery does not provide useful information. The associated LCS/LCSD recovery was acceptable.
T2	Cited ADHS Licensed method does not contain this analyte as part of the method compound list.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-01

Client Sample ID: Composite Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	60				mg/L	1	11/21/2011 1300	11/28/2011 1733	RAD
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	ND	0.0015	0.10		mg/L	1	11/14/2011 1200	11/14/2011 2045	JM
ICP Total Metals-E200.7									
Arsenic	ND	4.8	40		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Barium	72	0.15	50		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Beryllium	ND	0.19	2.0		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Cadmium	ND	0.31	2.0		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Calcium	19000	36	4000		ug/L	1	11/21/2011 1300	11/28/2011 1733	RAD
Chromium	ND	0.61	30		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Copper	52	0.88	20		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Magnesium	3100	150	3000		ug/L	1	11/21/2011 1300	11/28/2011 1733	RAD
Nickel	ND	1.1	50		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Silver	ND	0.46	10		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
Zinc	190	1.1	40		ug/L	1	11/21/2011 1300	11/28/2011 1734	RAD
ICP/MS Total Metals-E200.8									
Antimony	1.2	0.0038	0.50		ug/L	1	11/28/2011 1025	11/30/2011 1725	RAD
Lead	16	0.0046	0.50		ug/L	1	11/28/2011 1025	12/02/2011 1239	RAD
Selenium	ND	0.062	2.5		ug/L	1	11/28/2011 1025	12/05/2011 1323	RAD
Thallium	ND	0.0036	0.50		ug/L	1	11/28/2011 1025	12/02/2011 1239	RAD
CVAA Total Mercury-E245.1									
Mercury	ND	0.014	1.0		ug/L	1	11/16/2011 1300	11/17/2011 1309	RAD
Anions by Ion Chromatography-E300									
Nitrogen, Nitrate (As N)	ND	0.0031	1.0		mg/L	1	11/14/2011 1200	11/14/2011 2045	JM
Nitrogen, Nitrite (As N)	ND	0.0015	0.10		mg/L	1	11/14/2011 1200	11/14/2011 2045	JM
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.045	0.50		mg/L	1	11/14/2011 1200	11/14/2011 2045	JM
Total Phosphorous as P-H8190									
Total Phosphorus (as P)	0.33	0.022	0.10		mg/L	1	11/21/2011 1100	11/21/2011 1548	EW

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-01

Client Sample ID: Composite Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chemical Oxygen Demand-Hach 8000									
Chemical Oxygen Demand	96	6.5	20		mg/L	1	11/21/2011 0840	11/21/2011 1638	EW
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	1.5	0.043	0.50		mg/L	1	11/21/2011 0930	11/23/2011 1400	JM
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	98		20		mg/L	1	11/14/2011 1400	11/15/2011 1430	JM
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	170		10		mg/L	1	11/15/2011 1100	11/15/2011 1545	JM
Ammonia as N-SM4500 B,C									
Nitrogen, Ammonia (As N)	ND	0.068	0.50		mg/L	1	11/29/2011 0900	11/29/2011 1630	EW
BOD, 5 day-SM5210 B									
Biochemical Oxygen Demand	10		2.0		mg/L	1	11/15/2011 0900	11/20/2011 0900	JM

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-02

Client Sample ID: Grab/Discrete Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
N-Hexane Extractable Material (SGT-HEM)-E 1664A									
Total Petroleum Hydrocarbons	ND		5.00		mg/L	1	11/23/2011 0840	11/23/2011 1600	EW
N-Hexane Extractable Material (HEM)-E1664A									
Oil & Grease	ND	0.570	5.00		mg/L	1	12/02/2011 0825	12/02/2011 1654	EW
Volatile Organic Compounds by GCMS-EPA 624									
1,1,1-Trichloroethane	ND	0.23	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,1,2,2-Tetrachloroethane	ND	0.50	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,1,2-Trichloroethane	ND	0.32	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,1-Dichloroethane	ND	0.17	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,1-Dichloroethene	ND	0.28	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,2-Dichlorobenzene	ND	0.48	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,2-Dichloroethane	ND	0.21	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,2-Dichloropropane	ND	0.0	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,3-Dichlorobenzene	ND	0.35	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
1,4-Dichlorobenzene	ND	0.41	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
2-Chloroethylvinylether	ND	0.31	10		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Acetone	10	2.0	10	T2	ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Acrolein	ND	0.0	10		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Acrylonitrile	ND	0.92	10		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Benzene	ND	0.25	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Bromodichloromethane	ND	0.20	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Bromoform	ND	0.33	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Bromomethane	ND	0.21	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Carbon tetrachloride	ND	0.18	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Chlorobenzene	ND	0.24	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Chloroethane	ND	0.17	5.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Chloroform	ND	0.19	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Chloromethane	ND	0.28	5.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
cis-1,3-Dichloropropene	ND	0.30	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Dibromochloromethane	ND	0.21	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Dichlorodifluoromethane	ND	0.23	5.0	T2	ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Ethylbenzene	ND	0.24	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Methyl Isobutyl Ketone (MIBK)	ND	0.0	10	T2	ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Methylene chloride	ND	0.28	10		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Tetrachloroethene	ND	0.29	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Tetrahydrofuran	ND	1.6	10	T2	ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Toluene	ND	0.22	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-02

Client Sample ID: Grab/Discrete Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
trans-1,2-Dichloroethene	ND	0.23	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
trans-1,3-Dichloropropene	ND	0.17	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Trichloroethene	ND	0.19	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Trichlorofluoromethane	ND	0.0	5.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Vinyl chloride	ND	0.32	2.0		ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Xylenes, Total	ND	0.63	6.0	T2	ug/L	1	11/16/2011 1826	11/16/2011 2234	KP
Surr: 1,2-Dichloroethane-d4	*102*	*70-130*			*%REC*	*1*	*11/16/2011 1826*	*11/16/2011 2234*	*KP*
Surr: 4-Bromofluorobenzene	*97*	*70-130*			*%REC*	*1*	*11/16/2011 1826*	*11/16/2011 2234*	*KP*
Surr: Fluorobenzene	*101*	*70-130*			*%REC*	*1*	*11/16/2011 1826*	*11/16/2011 2234*	*KP*
Cyanide-SM4500-CN BE									
Cyanide	ND	14	100		ug/L	1	11/17/2011 0830	11/17/2011 1300	JM
Organochlorine Pesticides-SW8081A									
4,4´-DDD	ND	0.0098	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
4,4´-DDE	ND	0.0068	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
4,4´-DDT	ND	0.0029	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Aldrin	ND	0.0098	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
alpha-BHC	ND	0.020	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
alpha-Chlordane	ND	0.0058	0.098		ug/L	1	11/15/2011 0934	11/21/2011 1706	KP
beta-BHC	ND	0.020	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
delta-BHC	ND	0.020	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Dieldrin	ND	0.0049	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endosulfan I	ND	0.0098	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endosulfan II	ND	0.029	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endosulfan sulfate	ND	0.088	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endrin	ND	0.0059	0.098	L2	ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endrin aldehyde	ND	0.0049	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Endrin ketone	ND		0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
gamma-BHC	ND	0.0098	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
gamma-Chlordane	ND	0.0076	0.098		ug/L	1	11/15/2011 0934	11/21/2011 1706	KP
Heptachlor	ND	0.020	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Heptachlor epoxide	ND	0.020	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Methoxychlor	ND	0.0098	0.098		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Toxaphene	ND		0.98		ug/L	1	11/15/2011 0934	11/22/2011 2341	KP
Surr: Decachlorobiphenyl	*70*	*51.1-138.5*			*%REC*	*1*	*11/15/2011 0934*	*11/21/2011 1706*	*KP*
Surr: Tetrachloro-m-xylene	*90*	*39.1-120*			*%REC*	*1*	*11/15/2011 0934*	*11/21/2011 1706*	*KP*

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-02

Client Sample ID: Grab/Discrete Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
PCBs-SW8082									
Aroclor 1016	ND	0.090	0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1221	ND		0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1232	ND		0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1242	ND		0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1248	ND		0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1254	ND		0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Aroclor 1260	ND	0.060	0.98		ug/L	1	11/17/2011 0942	11/22/2011 0658	KP
Surr: Decachlorobiphenyl	*42*		*52.7-155.1*	*S6*	*%REC*	*1*	*11/17/2011 0942*	*11/22/2011 658*	*KP*
Semivolatile Organic Compounds-SW8270C									
1,2,4-Trichlorobenzene	ND	1.7	97	D5, L2, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
1,2-Dichlorobenzene	ND	1.9	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
1,2-Diphenylhydrazine	ND		97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
1,3-Dichlorobenzene	ND	1.2	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
1,4-Dichlorobenzene	ND	2.9	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4,5-Trichlorophenol	ND	5.4	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4,6-Trichlorophenol	ND	8.4	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4-Dichlorophenol	ND	7.9	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4-Dimethylphenol	ND	2.4	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4-Dinitrophenol	ND	14	480	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,4-Dinitrotoluene	ND	2.1	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2,6-Dinitrotoluene	ND	1.8	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Chloronaphthalene	ND	2.4	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Chlorophenol	ND	9.2	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Methylnaphthalene	ND	1.4	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Methylphenol	ND	3.4	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Nitroaniline	ND	1.6	190	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
2-Nitrophenol	ND	7.3	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
3,3´-Dichlorobenzidine	ND	11	190	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
3,4-Methylphenol	ND		97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
3-Nitroaniline	ND	1.4	190	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4,6-Dinitro-2-methylphenol	ND	12	190	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-02

Client Sample ID: Grab/Discrete Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
4-Bromophenyl phenyl ether	ND	2.9	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Chloro-3-methylphenol	ND	4.1	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Chloroaniline	ND	2.2	190	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Chlorophenyl phenyl ether	ND	2.3	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Methylphenol	ND	3.9	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Nitroaniline	ND	5.9	190	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
4-Nitrophenol	ND	5.1	480	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Acenaphthene	ND	5.1	48	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Acenaphthylene	ND	5.0	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Aniline	ND	3.2	190	D5, V1	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Anthracene	ND	5.3	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzo[a]anthracene	ND	6.3	48	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzo[a]pyrene	ND	5.0	48	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzo[b,k]fluoranthene	ND	13	97	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzo[g,h,i]perylene	ND	7.4	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzoic acid	ND	14	480	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Benzyl alcohol	ND	4.3	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Bis(2-chloroethoxy)methane	ND	8.7	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Bis(2-chloroethyl)ether	ND	1.6	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Bis(2-chloroisopropyl)ether	ND	2.0	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Bis(2-ethylhexyl)phthalate	ND	20	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Butyl benzyl phthalate	ND	6.9	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Chrysene	ND	2.5	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Dibenz[a,h]anthracene	ND	3.7	48	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Dibenzofuran	ND	1.4	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Diethyl phthalate	ND	2.3	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Dimethyl phthalate	ND	3.2	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Di-n-butyl phthalate	ND	18	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Di-n-octyl phthalate	ND	4.5	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Fluoranthene	ND	5.9	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Fluorene	ND	5.8	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Hexachlorobenzene	ND	7.6	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Hexachlorobutadiene	ND	2.1	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Hexachlorocyclopentadiene	ND	9.7	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Hexachloroethane	ND	2.2	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP

Turner Laboratories, Inc.

Date: 12/12/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 11K0407
Lab Sample ID: 11K0407-02

Client Sample ID: Grab/Discrete Site #4
Collection Date/Time: 11/13/2011 0914
Matrix: Storm Water
Order Name: Storm Water Site #4

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Indeno[1,2,3-cd]pyrene	ND	6.9	48	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Isophorone	ND	1.8	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Naphthalene	ND	5.6	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Nitrobenzene	ND	3.0	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
N-Nitrosodimethylamine	ND	1.7	97	D5, E8	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
N-Nitrosodiphenylamine	ND	7.2	97	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
N-Nitrosodipropylamine	ND	2.4	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Pentachlorophenol	ND	9.2	290	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Phenanthrene	ND	4.8	48	D5	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Phenol	ND	19	97	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Pyrene	ND	5.8	48	D5, M4	ug/L	1	11/15/2011 0931	11/23/2011 1911	KP
Surr: 2,4,6-Tribromophenol		*48.18-103.2*	*S8*		*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*
Surr: 2-Fluorobiphenyl		*44.86-97.28*	*N1, S8*		*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*
Surr: 2-Fluorophenol		*17.76-99.38*	*S8*		*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*
Surr: 4-Terphenyl-d14		*38.67-92.68*	*S8*		*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*
Surr: Nitrobenzene-d5	*57*	*23.73-103.2*			*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*
Surr: Phenol-d6		*17.76-99.38*	*S8*		*%REC*	*1*	*11/15/2011 0931*	*11/23/2011 1911*	*KP*

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 11K04107-01 DATE 11-13-11 PAGE 1 OF 1

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)
CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester
COMPANY NAME: City of Tucson
ADDRESS: PO Box 27210, Tucson AZ 85726-7210
PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)
FAX: 791-4343
SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Hardness	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Cyanide	Metals	Nitrate + Nitrite Sum	Nitrogen, Ammonia as N	Nitrogen, Total Kjeldahl	Phosphorus as P, Total	Orthophosphate by Ion Chromatography	Total Petroleum Hydrocarbons (TPH)	Oil & Grease	Volatile Organic Compounds by 8260	Semivolatile Organic Acid Extractables by 8270	Semivolatile Organic Base Neutrals by 8270	PCBs by 8082	Organochlorine Pesticides by SW 8081
Composite	11/13	9:14 am		ST	20	X	X	X	X	X		X	X	X	X	X	X							
Grab/Discrete	11/13	9:14 am		ST	18						X							X	X	X	X	X	X	X

1. RELINQUISHED BY: Eric Ross
Signature: Eric Ross
Printed Name: TDOT
Firm:
Date/Time: 11-13-11 13:11

2. RECEIVED BY: Erika Weidenschilling
Signature: Erika Weidenschilling
Printed Name: Turner Labs
Firm:
Date/Time: 11-13-11 13:11

TURNAROUND REQUIREMENTS:
___ Standard (approx. 10 days)*
___ Next day ___ 2 Day ___ 5 Day*
X Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
___ I. Routine Report
___ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
___ III. Data Validation Report (includes All Raw Data)
Add 10% to Invoice

INVOICE INFORMATION:
Account ___ Y ___ N
P.O. # ___
Bill to: ___

SAMPLE RECEIPT:
Total Containers ___
Temperature 6.1
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name
TURNER LABORATORIES, INC.
Firm
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis: ☐ Yes ☐ No	Custody Seals ☐	Preservation Confirmation ☐
ADEQ Forms: ☐ Yes ☐ No	Container Intact ☐	Appropriate Head Space ☐
Mail ADEQ Forms: ☐ Yes ☐ No	COC/Labels Agree ☐	Received Within Hold Time ☐

Metals; Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Ti, Zn
Cyanide, Metals, VOCs, SVOCs, PCBs, Pesticides; report in ug/L

Sampling Aliquot Form

Enter Site #:	4	Inspector Initials:	
Site:	17th St.	Date of Sample:	
Site Type:	INDUSTRIAL (SITE 4)	Sample #:	11-1113

Manual Rain Gauge Level (in.) @ Arrival:	0.1		Manual Rain Gauge Level (in.) at Finish:	
Auto. Rain Gauge Level (in.) at Arrival:			Auto. Rain Gauge Level (in.) at Finish:	
Time of Arrival:		9:08 AM	Grab Sample Time:	9:14:00 AM
Flow at Arrival? (Yes/No)		Yes ☑ No ☐	Time of First Flow:	
pH Reading:		7.95	Temperature (Deg C):	15.6
>72 Hours Since Last Measurable Rain?		Yes ☑ No ☐	Date of Last Measurable Rain:	

Elapsed Time (min.) after 1st Sample	Manual Sampling Enter Depth(in.) 0.25in min.	From Rating Table Flowrate (cfs)	From 17th St Calc sheet Flow (cfs)	Value from Rating Table or sampler Flow (cfs)	Comments: (See Site Information Worksheet For Depth each Sampling Site)
0	1.50	2.28	1.59	2.28	
20	1.00	0.89	0.86	0.89	
40	1.00	0.89	0.73	0.89	
60	1.00	0.89	0.76	0.89	
80	1.75	3.23	2.76	3.23	
100	2.00	4.35	5.00	4.35	
120	3.00	10.78	10.00	10.78	
140	4.00	20.71	10.00	20.71	
160	3.00	10.78	5.00	10.78	
180	1.50	2.28	1.46	2.28	
240			5.71		

Maximum Aliquot Volume Taken by Automated Sampler (ml)	
2000	

Enter time when aliquot was collected		Aliquot Volumes Calculated Using Maximum Aliquot	Aliquot Volumes for Lab Analysis (ml)
9:14 AM	Aliquot #1	220	140
9:34 AM	Aliquot #2	86	55
9:54 AM	Aliquot #3	86	55
10:14 AM	Aliquot #4	86	55
10:34 AM	Aliquot #5	312	198
10:54 AM	Aliquot #6	420	267
11:14 AM	Aliquot #7	1041	661
11:34 AM	Aliquot #8	2000	1270
11:54 AM	Aliquot #9	1041	661
12:14 PM	Aliquot #10	220	140
	Minimum Composite for Lab Analysis is 3500 ml:	5513	3502

Note: If any aliquot vol taken for Lab Analysis 1800 ml, the composite taken to the lab for anal has not been enough in collected to make a vali composite aliquot. (Ex in the blue column has "Collect another sample can not be taken for an individual samples are remove the note).

ADDITIONAL COMMENTS:

Manual grab and composite samples were collected. Depth levels were measured manually.

November 17, 2011

Chris McNellis
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4238

Work Order No.: 11K0406
Order Name: Storm Water Sample Site #4

RE: Storm Water Once per Season

Dear Chris McNellis,

Turner Laboratories, Inc. received 1 sample(s) on 11/13/2011 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Dawn Weyer
Project Manager

Turner Laboratories, Inc.

Date: 11/17/2011

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 11K0406
Date Received: 11/13/2011

Order: Storm Water Sample Site #4

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
11K0406-01	Site #4 Grab/Descrete	Storm Water	11/13/2011 0914

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 11K0406
Date Received: 11/13/2011

Case Narrative

E Value is above quantitation range.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 11/17/2011

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Site #4 Grab/Descrete
Project:	Storm Water Once per Season	**Collection Date/Time:**	11/13/2011 0914
Work Order:	11K0406	**Matrix:**	Storm Water
Lab Sample ID:	11K0406-01	**Order Name:**	Storm Water Sample Site #4

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Coliform & E. Coli, MPN-SM9223B								
E.Coli	2400	1.0	E	MPN/100mL	1	11/13/2011 1320	11/14/2011 1400	EW
Total Coliform	2400	1.0	E	MPN/100mL	1	11/13/2011 1320	11/14/2011 1400	EW

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 11K0406-01 DATE 11-13-11 PAGE 1 OF 1

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, (4) 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	MPN, Total Coliform and E.Coli
Grab/Discrete	11/13	9:[illegible]		ST	1	x

1. RELINQUISHED BY: Eric Ross
Signature: ERIC ROSS
Printed Name: TDOT
Firm: 11-13-11 11:13 82, 11-13-11 13:11
Date/Time

2. RECEIVED BY: Erika Weidenschilling
Signature: Erika Weidenschilling
Printed Name: Turner Labs
Firm: 11-13-11 13:11
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 3 Day*
_X_ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (Includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Data Validation Report (Includes All Raw Data)
Add 10% to Invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # ____
Bill to: ____

SAMPLE RECEIPT:
Total Containers ____
Temperature 6.1
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Firm
Date/Time

4. RECEIVED BY:
Signature
Printed Name TURNER LABORATORIES, INC.
Firm
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☑
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☑	Appropriate Head Space	☑
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

March 09, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 12B0490
Order Name: Site #5

RE: Storm Water Biannual

Dear Beverley Hester,

Turner Laboratories, Inc. received 2 sample(s) on 02/15/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Date Received: 02/15/2012

Order: Site #5

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12B0490-01	Composite	Storm Water	02/14/2012 1545
12B0490-02	Grab/Discrete	Storm Water	02/14/2012 1245

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Date Received: 02/15/2012

Case Narrative

EPA 624: Recovery of Acrolein was above the laboratory acceptance limits in the Matrix Spike. There is no Acrolein detection in the sample.

8270C: Sample recovery of 2-fluorophenol surrogate is below acceptance limits.

D5	Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
E8	Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
L1	The associated LCS/LCSD recovery was above laboratory acceptance limits.
M1	Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
M2	Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
M7	Matrix spike recovery was low. Data reported per ADEQ policy 0154.000.
N1	See case narrative.
R1	RPD/RSD exceeded the method acceptance limit. See case narrative.
S11	Surrogate recovery was high. Data reported per ADEQ policy 0154.000.
T2	Cited ADHS Licensed method does not contain this analyte as part of the method compound list.
V1	CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND	Not Detected at or above the PQL
PQL	Practical Quantitation Limit
DF	Dilution Factor

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-01

Client Sample ID: Composite
Collection Date/Time: 02/14/2012 1545
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hardness-Calculation									
Hardness, Calcium/Magnesium (As CaCO3)	100				mg/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Nitrate + Nitrite Sum-Calculation									
Nitrate and Nitrite Sum	2.0		0.10		mg/L	1	02/15/2012 1500	02/16/2012 0011	JM
ICP Total Metals-E200.7									
Antimony	ND		0.20		mg/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Arsenic	ND		40		ug/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Barium	130		50		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Beryllium	ND		2.0		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Cadmium	ND		2.0		ug/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Calcium	34000		4000		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Chromium	ND		30		ug/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Copper	99		20		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Lead	ND		0.040		mg/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Magnesium	4600		3000		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
Nickel	ND		50		ug/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Selenium	ND		0.040		mg/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Silver	ND		10		ug/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Thallium	ND		0.050		mg/L	1	02/16/2012 1125	02/17/2012 1648	RAD
Zinc	720		40		ug/L	1	02/16/2012 1125	02/17/2012 1647	RAD
CVAA Total Mercury-E245.1									
Mercury	ND		1.0		ug/L	1	02/29/2012 1315	03/01/2012 1110	RAD
Anions by Ion Chromatography-E300									
Nitrogen, Nitrate (As N)	2.0		1.0		mg/L	1	02/15/2012 1500	02/16/2012 0011	JM
Nitrogen, Nitrite (As N)	ND		0.10		mg/L	1	02/15/2012 1500	02/16/2012 0011	JM
Orthophosphate as P-H8048									
Orthophosphate (as P)	0.50		0.50		mg/L	5	02/16/2012 0930	02/16/2012 1000	JM
Total Phosphorous as P-H8190									
Total Phosphorus (as P)	0.69		0.10		mg/L	1	03/05/2012 1050	03/05/2012 1530	EW

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-01

Client Sample ID: Composite
Collection Date/Time: 02/14/2012 1545
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chemical Oxygen Demand-Hach 8000									
Chemical Oxygen Demand	470		20		mg/L	1	02/27/2012 0900	02/27/2012 1441	EW
Total Kjeldahl Nitrogen-PAI-DK01									
Nitrogen, Total Kjeldahl	8.8		0.50		mg/L	1	02/28/2012 1600	03/01/2012 1525	EW
Total Dissolved Solids (Residue, Filterable)-SM2540 C									
Total Dissolved Solids (Residue, Filterable)	300		20		mg/L	1	02/17/2012 1430	02/20/2012 1500	JM
Total Suspended Solids (Residue, Non-Filterable)-SM2540 D									
Total Suspended Solids	170		10		mg/L	1	02/20/2012 1030	02/20/2012 1525	JM
Ammonia as N-SM4500 B,C									
Nitrogen, Ammonia (As N)	3.7		0.50		mg/L	1	02/29/2012 0840	02/29/2012 1445	EW
BOD, 5 day-SM5210 B									
Biochemical Oxygen Demand	100		2.0		mg/L	1	02/16/2012 1030	02/21/2012 1030	JM

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-02

Client Sample ID: Grab/Discrete
Collection Date/Time: 02/14/2012 1245
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
N-Hexane Extractable Material (SGT-HEM)-E 1664A									
Total Petroleum Hydrocarbons	8.90		5.00		mg/L	1	03/08/2012 0820	03/08/2012 1548	EW
N-Hexane Extractable Material (HEM)-E1664A									
Oil & Grease	10.6		5.00		mg/L	1	02/24/2012 0820	02/24/2012 1650	EW
Additional Compounds by GCMS-E624									
2-Chloroethylvinylether	ND		50	D5	ug/L	5	02/21/2012 1414	02/21/2012 2158	KP
Acrolein	ND		50	D5, L1, N1, T2, V1	ug/L	5	02/21/2012 1414	02/21/2012 2158	KP
Acrylonitrile	ND		50	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2158	KP
Surr: 1,2-Dichloroethane-d4	*99*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2158*	*KP*
Surr: 4-Bromofluorobenzene	*109*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2158*	*KP*
Surr: Fluorobenzene	*106*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2158*	*KP*
Volatile Organic Compounds by GCMS-EPA 624									
1,1,1-Trichloroethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,1,2,2-Tetrachloroethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,1,2-Trichloroethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,1-Dichloroethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,1-Dichloroethene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,2-Dichlorobenzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,2-Dichloroethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,2-Dichloropropane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,3-Dichlorobenzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
1,4-Dichlorobenzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Acetone	ND		50	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Benzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Bromodichloromethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Bromoform	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Bromomethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Carbon tetrachloride	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Chlorobenzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-02

Client Sample ID: Grab/Discrete
Collection Date/Time: 02/14/2012 1245
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Chloroethane	ND		25	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Chloroform	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Chloromethane	ND		25	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
cis-1,3-Dichloropropene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Dibromochloromethane	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Dichlorodifluoromethane	ND		25	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Ethylbenzene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Methyl Isobutyl Ketone (MIBK)	ND		50	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Methylene chloride	ND		50	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Tetrachloroethene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Tetrahydrofuran	ND		50	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Toluene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
trans-1,2-Dichloroethene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
trans-1,3-Dichloropropene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Trichloroethene	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Trichlorofluoromethane	ND		25	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Vinyl chloride	ND		10	D5	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Xylenes, Total	ND		30	D5, T2	ug/L	5	02/21/2012 1414	02/21/2012 2231	KP
Surr: 1,2-Dichloroethane-d4	*103*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2231*	*KP*
Surr: 4-Bromofluorobenzene	*104*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2231*	*KP*
Surr: Fluorobenzene	*104*	*70-130*			*%REC*	*5*	*02/21/2012 1414*	*02/21/2012 2231*	*KP*
Cyanide-SM4500-CN BE									
Cyanide	ND		100		ug/L	1	02/27/2012 0900	02/28/2012 0900	JM
Organochlorine Pesticides-SW8081A									
4,4´-DDD	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
4,4´-DDE	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
4,4´-DDT	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Aldrin	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
alpha-BHC	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
alpha-Chlordane	ND		0.099		ug/L	1	02/20/2012 0830	02/29/2012 0000	KP
beta-BHC	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
delta-BHC	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Dieldrin	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-02

Client Sample ID: Grab/Discrete
Collection Date/Time: 02/14/2012 1245
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Endosulfan I	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Endosulfan II	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Endosulfan sulfate	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Endrin	ND		0.099	M7	ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Endrin aldehyde	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Endrin ketone	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
gamma-BHC	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
gamma-Chlordane	ND		0.099		ug/L	1	02/20/2012 0830	02/29/2012 0000	KP
Heptachlor	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Heptachlor epoxide	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Methoxychlor	ND		0.099		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Toxaphene	ND		0.99		ug/L	1	02/20/2012 0830	02/28/2012 2004	KP
Surr: Decachlorobiphenyl	*68*	*51.1-138.5*			*%REC*	*1*	*02/20/2012 0830*	*02/28/2012 2004*	*KP*
Surr: Tetrachloro-m-xylene	*226*	*39.1-120*			*%REC*	*1*	*02/20/2012 0830*	*02/28/2012 2004*	*KP*
PCBs-SW8082									
Aroclor 1016	ND		0.99	M1	ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1221	ND		0.99		ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1232	ND		0.99		ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1242	ND		0.99		ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1248	ND		0.99		ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1254	ND		0.99		ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Aroclor 1260	ND		0.99	M2	ug/L	1	02/21/2012 1032	02/29/2012 0942	KP
Surr: Decachlorobiphenyl	*71*	*52.7-155.1*			*%REC*	*1*	*02/21/2012 1032*	*02/29/2012 942*	*KP*
Semivolatile Organic Compounds-SW8270C									
1,2,4-Trichlorobenzene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
1,2-Dichlorobenzene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
1,2-Diphenylhydrazine	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
1,3-Dichlorobenzene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
1,4-Dichlorobenzene	ND		9.9	M2	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4,5-Trichlorophenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4,6-Trichlorophenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4-Dichlorophenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4-Dimethylphenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4-Dinitrophenol	ND		49		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2,4-Dinitrotoluene	ND		9.9	M2	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-02

Client Sample ID: Grab/Discrete
Collection Date/Time: 02/14/2012 1245
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
2,6-Dinitrotoluene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Chloronaphthalene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Chlorophenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Methylnaphthalene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Methylphenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Nitroaniline	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
2-Nitrophenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
3,3´-Dichlorobenzidine	ND	1.1	20	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
3,4-Methylphenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
3-Nitroaniline	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4,6-Dinitro-2-methylphenol	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Bromophenyl phenyl ether	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Chloro-3-methylphenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Chloroaniline	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Chlorophenyl phenyl ether	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Methylphenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Nitroaniline	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
4-Nitrophenol	ND		49		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Acenaphthene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Acenaphthylene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Aniline	ND		20		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Anthracene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Benzo[a]anthracene	ND	0.64	4.9	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Benzo[a]pyrene	ND		4.9	V1	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Benzo[b,k]fluoranthene	ND	1.3	9.9	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Benzo[g,h,i]perylene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Benzoic acid	630		490		ug/L	10	02/17/2012 1634	02/28/2012 2109	KP
Benzyl alcohol	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Bis(2-chloroethoxy)methane	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Bis(2-chloroethyl)ether	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Bis(2-chloroisopropyl)ether	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Bis(2-ethylhexyl)phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Butyl benzyl phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Chrysene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Dibenz[a,h]anthracene	ND	0.37	4.9	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Dibenzofuran	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Diethyl phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Dimethyl phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Di-n-butyl phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Di-n-octyl phthalate	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Fluoranthene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Fluorene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP

Turner Laboratories, Inc.

Date: 03/09/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Biannual
Work Order: 12B0490
Lab Sample ID: 12B0490-02

Client Sample ID: Grab/Discrete
Collection Date/Time: 02/14/2012 1245
Matrix: Storm Water
Order Name: Site #5

Analyses	Result	MDL	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Hexachlorobenzene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Hexachlorobutadiene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Hexachlorocyclopentadiene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Hexachloroethane	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Indeno[1,2,3-cd]pyrene	ND	0.70	4.9	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Isophorone	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Naphthalene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Nitrobenzene	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
N-Nitrosodimethylamine	ND	0.18	9.9	E8	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
N-Nitrosodiphenylamine	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
N-Nitrosodipropylamine	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Pentachlorophenol	ND		30		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Phenanthrene	ND		4.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Phenol	ND		9.9		ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Pyrene	ND		4.9	M2, R1	ug/L	1	02/17/2012 1634	02/28/2012 2253	KP
Surr: 2,4,6-Tribromophenol	*70*	*48.18-103.2*			*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*
Surr: 2-Fluorobiphenyl	*55*	*44.86-97.28*			*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*
Surr: 2-Fluorophenol	*12*	*17.76-99.38*	*N1*		*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*
Surr: 4-Terphenyl-d14	*70*	*38.67-92.68*			*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*
Surr: Nitrobenzene-d5	*32*	*23.73-103.2*			*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*
Surr: Phenol-d6	*51*	*17.76-99.38*			*%REC*	*1*	*02/17/2012 1634*	*02/28/2012 2253*	*KP*

TURNER LABORATORIES INC.
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Tucson, Arizona 85745
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Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12B0490 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)

CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Hardness	Total Dissolved Solids (TDS)	Total Suspended Solids (TSS)	Biological Oxygen Demand (BOD)	Chemical Oxygen Demand (COD)	Cyanide	Metals	Nitrate + Nitrite Sum	Nitrogen, Ammonia as N	Nitrogen, Total Kjeldahl	Phosphorus as P, Total	Orthophosphate by Ion Chromatography	Total Petroleum Hydrocarbons (TPH)	Oil & Grease	Volatile Organic Compounds by 8260 (624)	Semivolatile Organic Acid Extractables by 8270	Semivolatile Organic Base Neutrals by 8270	PCBs by 8082	Organochlorine Pesticides by SW 8081	
Composite	2/14	3:45AM		ST	20	X	X	X	X	X		X	X	X	X	X	X								
Grab/Discrete	2/14	12:45pm		ST	18						X							X	X	X	X	X	X	X	

1. RELINQUISHED BY: Eric Ross
Signature
Printed Name ERIC ROSS
Firm COT
Date/Time 2-15-12 11:20AM

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
_X_ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (Includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 38
Temperature 0
☒ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Time

4. RECEIVED BY: Lucia Santacruz
Signature
Printed Name Lucia Santacruz
Firm TURNER LABORATORIES, INC.
Date/Time 2-15-12 11:20

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☒
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☒	Appropriate Head Space	☒
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☒	Received Within Hold Time	☒

Metals; Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Ti, Zn Tl
Cyanide, Metals, VOCs, SVOCs, PCBs, Pesticides; report in ug/L

Sampling Aliquot Form

Enter Site #:	5	Inspector Initials:	ER
Site:	Limberlost	Date of Sample:	02/14/12
Site Type:	MIXED USE (SITE 5)	Sample #:	12-0214 MU

Manual Rain Gauge Level (in.) @ Arrival:	0.1		Manual Rain Gauge Level (in.) at Finish:	0.1	
Auto. Rain Gauge Level (in.) at Arrival:	0.04		Auto. Rain Gauge Level (in.) at Finish:	0.11	Aliquot Begin Ti
Time of Arrival:	12:25 PM		Grab Sample Time:	12:45:00 PM	12:45:00 PM
Flow at Arrival? (Yes/No)		Yes ☐ No ☑	Time of First Flow:	12:41 PM	
pH Reading:	7.75		Temperature (Deg C):	11.5	
>72 Hours Since Last Measurable Rain?		Yes ☑ No☐	Date of Last Measurable Rain:	January 15, 2012	

Elapsed Time (min.) after 1st Sample	Manual Sampling Enter Depth(in.) 0.25in min.	Flowrate (cfs)	Auto Sampling Flow (cfs)	Value from Rating Table or sampler Flow (cfs)	Comments: (See Site Information Worksheet For Depth Measurements at each Sampling Site)
0	2.50	0.45		0.45	
20	3.50	0.94		0.94	
40	5.00	1.84		1.84	
60	5.00	1.84		1.84	
80	4.00	1.21		1.21	
100	4.00	1.21		1.21	
120	3.50	0.94		0.94	
140	3.50	0.94		0.94	
160	3.00	0.68		0.68	
180	3.00	0.68		0.68	
240			1.07		

Maximum Aliquot Volume Taken by Automated Sampler (ml)
2000

Enter time when aliquot was collected		Aliquot Volumes Calculated Using Maximum Aliquot	Aliquot Volumes for Lab Analysis (ml)
12:45 PM	Aliquot #1	491	147
1:05 PM	Aliquot #2	1021	306
1:25 PM	Aliquot #3	2000	599
1:45 PM	Aliquot #4	2000	599
2:05 PM	Aliquot #5	1321	396
2:25 PM	Aliquot #6	1321	396
2:45 PM	Aliquot #7	1021	306
3:05 PM	Aliquot #8	1021	306
3:25 PM	Aliquot #9	745	223
3:45 PM	Aliquot #10	745	223
	Minimum Composite for Lab Analysis is 3500 ml:	11685	3501

Note: If any aliquot volume that is to be taken for Lab Analysis is greater than 1800 ml, the composite sample cannot be taken to the lab for analysis. That is there has not been enough individual samples collected to make a valid flow-weighted composite aliquot. (Example: If any row in the blue column has a note indicating "Collect another sample", the composite can not be taken for analysis untill enough individual samples are collected to remove the

ADDITIONAL COMMENTS:

Manual grab and composite samples were collected. Depth levels were measured manually.

CITY OF TUCSON 1280990

Sampling Aliquot Form

Enter Site #:	5	Inspector Initials:	ER
Site:	Limberlost	Date of Sample:	02/14/12
Site Type:	MIXED USE (SITE 5)	Sample #:	12-0214 MU

Manual Rain Gauge Level (in.) @ Arrival:	0.1		Manual Rain Gauge Level (in.) at Finish:	0.1	
Auto. Rain Gauge Level (in.) at Arrival:	0.04		Auto. Rain Gauge Level (in.) at Finish:	0.11	Aliquot Begin T
Time of Arrival:	12:25 PM		Grab Sample Time:	12:45:00 PM	12:45:00 PM
Flow at Arrival? (Yes/No)		Yes ☐ No ☑	Time of First Flow:	12:41 PM	
pH Reading:	7.75		Temperature (Deg C):	11.5	
>72 Hours Since Last Measurable Rain?		Yes ☑ No ☐	Date of Last Measurable Rain:	January 15, 2012	

Elapsed Time (min.) after 1st Sample	Manual Sampling Enter Depth(in.) 0.25in min.	Flowrate (cfs)	Auto Sampling Flow (cfs)	Value from Rating Table or sampler Flow (cfs)	Comments: (See Site Information Worksheet For Depth Measurements at each Sampling Site)
0	2.50	0.45		0.45	
20	3.50	0.94		0.94	
40	5.00	1.84		1.84	
60	5.00	1.84		1.84	
80	4.00	1.21		1.21	
100	4.00	1.21		1.21	
120	3.50	0.94		0.94	
140	3.50	0.94		0.94	
160	3.00	0.68		0.68	
180	3.00	0.68		0.68	
240			1.07		
Maximum Aliquot Volume Taken by Automated Sampler (ml)					
2000					

Enter time when aliquot was collected		Aliquot Volumes Calculated Using Maximum Aliquot	Aliquot Volumes for Lab Analysis (ml)
12:45 PM	Aliquot #1	491	147
1:05 PM	Aliquot #2	1021	306
1:25 PM	Aliquot #3	2000	599
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2:05 PM	Aliquot #5	1321	396
2:25 PM	Aliquot #6	1321	396
2:45 PM	Aliquot #7	1021	306
3:05 PM	Aliquot #8	1021	306
3:25 PM	Aliquot #9	745	223
3:45 PM	Aliquot #10	745	223
	Minimum Composite for Lab Analysis is 3500 ml:	11685	3501

Note: If any aliquot volume that is to be taken for Lab Analysis is greater than 1800 ml, the composite sample cannot be taken to the lab for analysis. That is there has not been enough individual samples collected to make a valid flow-weighted composite aliquot. (Example: If any row in the blue column has a note indicating "Collect another sample", the composite can not be taken for analysis untill enough individual samples are collected to remove the

ADDITIONAL COMMENTS:

Manual grab and composite samples were collected. Depth levels were measured manually.

February 17, 2012

Chris McNellis
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL (520) 837-6583
FAX (520) 791-4238

Work Order No.: 12B0466
Order Name: Storm Water Once per Season

RE: Storm Water Once per Season

Dear Chris McNellis,

Turner Laboratories, Inc. received 1 sample(s) on 02/14/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 02/17/2012

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 12B0466
Date Received: 02/14/2012

Order: Storm Water Once per Season

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12B0466-01	Site #5 Grab	Storm Water	02/14/2012 1245

Client: City of Tucson - Transportation Department
Project: Storm Water Once per Season
Work Order: 12B0466
Date Received: 02/14/2012

Case Narrative

E Value is above quantitation range.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 02/17/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Site #5 Grab
Project:	Storm Water Once per Season	**Collection Date/Time:**	02/14/2012 1245
Work Order:	12B0466	**Matrix:**	Storm Water
Lab Sample ID:	12B0466-01	**Order Name:**	Storm Water Once per Season

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Coliform & E. Coli, MPN-SM9223B								
E.Coli	93	1.0		MPN/100mL	1	02/14/2012 1400	02/15/2012 1425	EW
Total Coliform	2400	1.0	E	MPN/100mL	1	02/14/2012 1400	02/15/2012 1425	EW

TURNER LABORATORIES INC.
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Tucson, Arizona 85745
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www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12B0466 DATE _____ PAGE ____ OF ____

PROJECT NAME: Stormwater Samples Site # 1, 2, 3, 4, 5 (circle)
CONTACT NAME: Chris McNellis, Eric Ross, Bev Hester
COMPANY NAME: City of Tucson
ADDRESS: PO Box 27210, Tucson AZ 85726-7210
PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)
FAX: 791-4343
SAMPLER'S SIGNATURE: [signature]

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	MPN, Total Coliform and E.Coli
Grab/Discrete	02-14-12	1245		ST		x

1. RELINQUISHED BY: [signature] Signature: [signature] Printed Name: CoT Firm: 2-14-12 1:21PM Date/Time

2. RECEIVED BY: [signature] Signature: BEVERLEY HESTER Printed Name: CoT Firm: 2-14-12 1:21pM Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
_X_ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 1
Temperature 8
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY: [signature] Signature: BEVERLEY HESTER Printed Name: CoT Firm: Date/Time 2-14-12 1:46pm

4. RECEIVED BY: [signature] Signature: [signature] Printed Name: TURNER LABORATORIES, INC. Firm: 2-14-12 1346 Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☐
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☑	Appropriate Head Space	☑
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☐	Received Within Hold Time	☑

August 17, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 12G0809
Order Name: Lakeside Lake

RE: Lakeside Lake

Dear Beverley Hester,

Turner Laboratories, Inc. received 1 sample(s) on 07/30/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 08/17/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Date Received: 07/30/2012

Order: Lakeside Lake

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12G0809-01	120728LL	Storm Water	07/28/2012 1630

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Date Received: 07/30/2012

Case Narrative

H1 Sample analysis was performed past holding time.

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

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 08/17/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Lab Sample ID: 12G0809-01

Client Sample ID: 120728LL
Collection Date/Time: 07/28/2012 1630
Matrix: Storm Water
Order Name: Lakeside Lake

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	13			mg/L	10	08/08/2012 1600	08/10/2012 1620	EW
Turbidity-E180.1								
Turbidity	3100	10	H1	NTU	100	08/01/2012 1430	08/01/2012 1445	AC
Anions by Ion Chromatography-E300								
Nitrogen, Nitrate (As N)	ND	1.0	H1	mg/L	1	07/31/2012 1100	07/31/2012 1312	EW
Nitrogen, Nitrite (As N)	ND	0.10	H1	mg/L	1	07/31/2012 1100	07/31/2012 1312	EW
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H1	mg/L	1	07/31/2012 1100	07/31/2012 1312	EW
Total Phosphorous as P-H8190								
Total Phosphorus (as P)	5.2	1.0		mg/L	10	08/16/2012 1440	08/16/2012 1755	AC
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	13	5.0		mg/L	10	08/08/2012 1600	08/10/2012 1620	EW
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	08/16/2012 1400	08/16/2012 1735	EW
Oxygen, Dissolved-SM4500-OG								
Oxygen, Dissolved	7.1	0.10	H5	mg/L	1	07/30/2012 1320	07/30/2012 1330	AC

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Date Received: 07/30/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1207317 - SM4500-OG										
Duplicate (1207317-DUP1)		**Source: 12G0809-01**		Prepared & Analyzed: 07/30/2012						
Oxygen, Dissolved	7.1	0.10	mg/L		7.1			0.3	200	
Batch 1208039 - E180.1										
Duplicate (1208039-DUP1)		**Source: 12G0809-01**		Prepared & Analyzed: 08/01/2012						
Turbidity	3100	10	NTU		3100			0.6	10	
Batch 1208096 - PAI-DK01										
Blank (1208096-BLK1)				Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (1208096-BS1)				Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000		97	80-120			
LCS Dup (1208096-BSD1)				Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	4.6	0.50	mg/L	5.000		92	80-120	5	20	
Matrix Spike (1208096-MS1)		**Source: 12G0521-02**		Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	9.5	0.50	mg/L	5.000	4.2	107	80-120			
Matrix Spike (1208096-MS2)		**Source: 12G0564-01**		Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	150	10	mg/L	100.0	51	102	80-120			
Matrix Spike Dup (1208096-MSD1)		**Source: 12G0521-02**		Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	10	0.50	mg/L	5.000	4.2	116	80-120	5	20	
Matrix Spike Dup (1208096-MSD2)		**Source: 12G0564-01**		Prepared: 08/08/2012 Analyzed: 08/10/2012						
Nitrogen, Total Kjeldahl	150	10	mg/L	100.0	51	103	80-120	0.9	20	
Batch 1208139 - SM4500-NH3 B,C										
Blank (1208139-BLK1)				Prepared & Analyzed: 08/16/2012						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (1208139-BS1)				Prepared & Analyzed: 08/16/2012						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000		98	90-110			
LCS Dup (1208139-BSD1)				Prepared & Analyzed: 08/16/2012						
Nitrogen, Ammonia (As N)	5.1	0.50	mg/L	5.000		102	90-110	3	10	
Matrix Spike (1208139-MS1)		**Source: 12G0765-01**		Prepared & Analyzed: 08/16/2012						
Nitrogen, Ammonia (As N)	4.7	0.50	mg/L	5.000	ND	94	70-130			
Matrix Spike Dup (1208139-MSD1)		**Source: 12G0765-01**		Prepared & Analyzed: 08/16/2012						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	ND	97	70-130	3	20	
Batch 1208205 - H8190										
Blank (1208205-BLK1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	ND	0.10	mg/L							
LCS (1208205-BS1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.48	0.10	mg/L	0.5000		96	90-110			

Turner Laboratories, Inc.

Date: 08/17/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Date Received: 07/30/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208205 - H8190										
LCS Dup (1208205-BSD1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.51	0.10	mg/L	0.5000		102	90-110	6	10	
Matrix Spike (1208205-MS1)		**Source: 12G0693-01**		Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.78	0.10	mg/L	0.5000	0.25	106	70-130			
Matrix Spike Dup (1208205-MSD1)		**Source: 12G0693-01**		Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.80	0.10	mg/L	0.5000	0.25	110	70-130	3	15	

Turner Laboratories, Inc.

Date: 08/17/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12G0809
Date Received: 07/30/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1207325 - E300										
Blank (1207325-BLK1)				Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	ND	1.0	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
LCS (1207325-BS1)				Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	4.8	1.0	mg/L	5.000		97	90-110			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500		98	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		104	90-110			
LCS Dup (1207325-BSD1)				Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	5.0	1.0	mg/L	5.000		99	90-110	3	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		100	90-110	2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		104	90-110	0.6	10	
Matrix Spike (1207325-MS1)		**Source: 12G0810-01**		Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	7.0	1.0	mg/L	5.000	2.2	96	80-120			
Nitrogen, Nitrite (As N)	2.6	0.10	mg/L	2.500	0.24	96	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	ND	110	80-120			
Matrix Spike (1207325-MS2)		**Source: 12G0826-04**		Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	4.9	1.0	mg/L	5.000	0.19	94	80-120			
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	97	80-120			
Matrix Spike Dup (1207325-MSD1)		**Source: 12G0810-01**		Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	7.0	1.0	mg/L	5.000	2.2	97	80-120	0.6	10	
Nitrogen, Nitrite (As N)	2.7	0.10	mg/L	2.500	0.24	98	80-120	2	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.8	0.50	mg/L	2.500	ND	111	80-120	0.9	10	
Matrix Spike Dup (1207325-MSD2)		**Source: 12G0826-04**		Prepared & Analyzed: 07/31/2012						
Nitrogen, Nitrate (As N)	4.9	1.0	mg/L	5.000	0.19	94	80-120	0.6	10	
Nitrogen, Nitrite (As N)	2.4	0.10	mg/L	2.500	ND	97	80-120	0.08	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1260809 DATE _____ PAGE _____ OF _____

PROJECT NAME: Stormwater Samples Lakeside

CONTACT NAME: ~~Chris McNellis~~, ~~Eric Ross~~, ~~Bev Hester~~

COMPANY NAME: City of Tucson

ADDRESS: PO Box 27210, Tucson AZ 85726-7210

PHONE: 837-6583 (Chris), 837-6582 (Eric), 837-4935 (Bev)

FAX: 791-4343

SAMPLER'S SIGNATURE: C McNellis

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	Turbidity		Orthophosphate by Ion Chromatography	Phosphorus as P, Total	Nitrogen, Total Calculation	Nitrogen, Total Kjeldahl	Nitrate/Nitrite	P/35 02	NH3
12072BLL	7/28	4:30pm		ST	2									

1. RELINQUISHED BY:
Signature: C McNellis
Printed Name: COT
Firm:
Date/Time: 7/30/12 8:52 AM

2. RECEIVED BY:
Signature:
Printed Name:
Firm:
Date/Time:

3. RELINQUISHED BY:
Signature:
Printed Name:
Firm:
Date/Time:

4. RECEIVED BY:
Signature: [illegible]
Printed Name: TURNER LABORATORIES, INC.
Firm:
Date/Time: 7-30-12 0852

TURNAROUND REQUIREMENTS:
____Standard (approx.10 days)*
____Next day ____2 Day ____5 Day*
_X_ Email Preliminary Results To: Bev.Hester@tucsonaz.gov
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____Y____N
P.O. # _____
Bill to: _____

SAMPLE RECEIPT:
Total Containers 2
Temperature 0.8
☑ Wet Ice ☐ Blue Ice

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes ☐ No	Custody Seals	☐	Preservation Confirmation	☑
ADEQ Forms:	☐ Yes ☐ No	Container Intact	☑	Appropriate Head Space	☐
Mail ADEQ Forms:	☐ Yes ☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

August 31, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 12H0133
Order Name: Lakeside Lake

RE: Lakeside Lake Wash

Dear Beverley Hester,

Turner Laboratories, Inc. received 1 sample(s) on 08/06/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 08/31/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake Wash
Work Order: 12H0133
Date Received: 08/06/2012

Order: Lakeside Lake

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12H0133-01	Grab	Storm Water	08/05/2012 1725

Client: City of Tucson - Transportation Department
Project: Lakeside Lake Wash
Work Order: 12H0133
Date Received: 08/06/2012

Case Narrative

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 08/31/2012

Client:	City of Tucson - Transportation Department	**Client Sample ID:**	Grab
Project:	Lakeside Lake Wash	**Collection Date/Time:**	08/05/2012 1725
Work Order:	12H0133	**Matrix:**	Storm Water
Lab Sample ID:	12H0133-01	**Order Name:**	Lakeside Lake

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	3.9			mg/L	5	08/15/2012 1600	08/17/2012 1640	EW
Turbidity-E180.1								
Turbidity	600	5.0		NTU	50	08/06/2012 0855	08/06/2012 0930	AC
Anions by Ion Chromatography-E300								
Nitrogen, Nitrate (As N)	ND	1.0		mg/L	1	08/06/2012 1100	08/06/2012 1215	EW
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	08/06/2012 1100	08/06/2012 1215	EW
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	08/06/2012 1100	08/06/2012 1215	EW
Total Phosphorous as P-H8190								
Total Phosphorus (as P)	0.34	0.20		mg/L	2	08/30/2012 1500	08/30/2012 1840	AC
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	3.9	2.5		mg/L	5	08/15/2012 1600	08/17/2012 1640	EW
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	0.65	0.50		mg/L	1	08/22/2012 1400	08/22/2012 1820	EW

Turner Laboratories, Inc.

Date: 08/31/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake Wash
Work Order: 12H0133
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208067 - E180.1										
Duplicate (1208067-DUP1)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Turbidity	200	5.0	NTU		200			0.5	10	
Duplicate (1208067-DUP2)		**Source: 12H0039-01**		Prepared & Analyzed: 08/06/2012						
Turbidity	1.6	0.10	NTU		1.6			1	10	
Batch 1208136 - PAI-DK01										
Blank (1208136-BLK1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (1208136-BS1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000		97	80-120			
LCS Dup (1208136-BSD1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000		96	80-120	1	20	
Matrix Spike (1208136-MS1)		**Source: 12H0045-02**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	54	5.0	mg/L	50.00	3.9	100	80-120			
Matrix Spike (1208136-MS2)		**Source: 12H0157-03**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	0.22	97	80-120			
Matrix Spike Dup (1208136-MSD1)		**Source: 12H0045-02**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	52	5.0	mg/L	50.00	3.9	96	80-120	3	20	
Matrix Spike Dup (1208136-MSD2)		**Source: 12H0157-03**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	0.22	97	80-120	0	20	
Batch 1208172 - SM4500-NH3 B,C										
Blank (1208172-BLK1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (1208172-BS1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.4	0.50	mg/L	5.000		108	90-110			
LCS Dup (1208172-BSD1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000		104	90-110	3	10	
Matrix Spike (1208172-MS1)		**Source: 12H0076-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000	0.29	98	70-130			
Matrix Spike (1208172-MS2)		**Source: 12H0445-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	4500	250	mg/L	2500	1700	113	70-130			
Matrix Spike Dup (1208172-MSD1)		**Source: 12H0076-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000	0.29	98	70-130	0	20	
Matrix Spike Dup (1208172-MSD2)		**Source: 12H0445-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	4400	250	mg/L	2500	1700	109	70-130	2	20	
Batch 1208335 - H8190										

Turner Laboratories, Inc.

Date: 08/31/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake Wash
Work Order: 12H0133
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208335 - H8190										
Blank (1208335-BLK1)				Prepared & Analyzed: 08/30/2012						
Total Phosphorus (as P)	ND	0.10	mg/L							
LCS (1208335-BS1)				Prepared & Analyzed: 08/30/2012						
Total Phosphorus (as P)	0.51	0.10	mg/L	0.5000		102	90-110			
LCS Dup (1208335-BSD1)				Prepared & Analyzed: 08/30/2012						
Total Phosphorus (as P)	0.50	0.10	mg/L	0.5000		100	90-110	2	10	
Matrix Spike (1208335-MS1)		**Source: 12H0445-01**		Prepared & Analyzed: 08/30/2012						
Total Phosphorus (as P)	0.68	0.10	mg/L	0.5000	0.21	94	70-130			
Matrix Spike Dup (1208335-MSD1)		**Source: 12H0445-01**		Prepared & Analyzed: 08/30/2012						
Total Phosphorus (as P)	0.65	0.10	mg/L	0.5000	0.21	88	70-130	5	15	

Client: City of Tucson - Transportation Department
Project: Lakeside Lake Wash
Work Order: 12H0133
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208055 - E300										
Blank (1208055-BLK1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	ND	1.0	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
LCS (1208055-BS1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	4.7	1.0	mg/L	5.000		94	90-110			
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500		94	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.3	0.50	mg/L	2.500		94	90-110			
LCS Dup (1208055-BSD1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	4.7	1.0	mg/L	5.000		93	90-110	2	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500		93	90-110	0.5	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.3	0.50	mg/L	2.500		93	90-110	0.9	10	
Matrix Spike (1208055-MS1)		**Source: 12H0133-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5.1	1.0	mg/L	5.000	0.62	89	80-120			
Nitrogen, Nitrite (As N)	2.2	0.10	mg/L	2.500	0.017	89	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	0.088	103	80-120			
Matrix Spike (1208055-MS2)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5.5	1.0	mg/L	5.000	1.0	90	80-120			
Nitrogen, Nitrite (As N)	2.2	0.10	mg/L	2.500	0.022	89	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.9	0.50	mg/L	2.500	0.21	107	80-120			
Matrix Spike Dup (1208055-MSD1)		**Source: 12H0133-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5.1	1.0	mg/L	5.000	0.62	90	80-120	0.5	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500	0.017	90	80-120	0.6	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	0.088	104	80-120	0.6	10	
Matrix Spike Dup (1208055-MSD2)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5.5	1.0	mg/L	5.000	1.0	90	80-120	0.3	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500	0.022	90	80-120	0.9	10	
Phosphorus, Dissolved Orthophosphate (As P)	3.0	0.50	mg/L	2.500	0.21	110	80-120	3	10	

TURNER LABORATORIES INC.
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Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 12H0133 DATE _____ PAGE ____ OF ____

PROJECT NAME Lakeside #

CONTACT NAME Chris McNellis

COMPANY NAME City of Tucson - Transportation Dept

ADDRESS P.O. Box 27210

CITY Tucson STATE AZ ZIP CODE 85726

PHONE (520) 837-6583 FAX (520) 791-4373

SAMPLER'S SIGNATURE

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	NH3	Orthophosphate	Nitrate, Nitrite	TKN	Nitrogen, Total Calculation	Total Phosphorus	Turbidity
Grab	8.5.12	1725		Storm Water	2	X	X	X	X	X	X	X

1. RELINQUISHED BY:
Signature
Stephen Ludbe
Printed Name
Firm
8.6.12 0810
Date/Time

2. RECEIVED BY:
Signature
Printed Name
Firm
Date/Time

TURNAROUND REQUIREMENTS:
____ Standard (approx.10 days)*
____ Next day ____ 2 Day ____ 5 Day*
____ Email Preliminary Results To:
* Working Days

REPORT REQUIREMENTS:
____ I. Routine Report
____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples)
____ III. Date Validation Report (includes All Raw Data)
Add 10% to invoice

INVOICE INFORMATION:
Account ____ Y ____ N
P.O. # ____
Bill to: ____

SAMPLE RECEIPT:
Total Containers 3
Temperature 4.1
☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:
Signature
Printed Name
Time

4. RECEIVED BY:
Signature
Lauren Weyer
Printed Name
TURNER LABORATORIES, INC.
Firm
8/6/12 0810
Date/Time

*LEGEND
DW = DRINKING WATER
GW = GROUNDWATER
SD = SOLID
SG = SLUDGE
SL = SOIL
ST = STORMWATER
WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis: ☐ Yes ☐ No	Custody Seals ☐	Preservation Confirmation ☑	
ADEQ Forms: ☐ Yes ☐ No	Container Intact ☑	Appropriate Head Space ☐	
Mail ADEQ Forms: ☐ Yes ☐ No	COC/Labels Agree ☑	Received Within Hold Time ☑	

*Ni, Hg, Ag, Cr, Cd, Be, Ba, As, Cu, Sb, Zn, Se, Pb, Tl, Ca, Mg 8.6.12

Composite poured at lab per C.O.T. Specifications

September 07, 2012

Beverley Hester
City of Tucson - Transportation Department
PO Box 27210
Tucson, AZ 85726-7210

TEL 520-837-4935
FAX (520) 791-4373

Work Order No.: 12H0137
Order Name: Lakeside Lake

RE: Lakeside Lake

Dear Beverley Hester,

Turner Laboratories, Inc. received 1 sample(s) on 08/06/2012 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri L. Garcia

Terri Garcia
Technical Director

Turner Laboratories, Inc.

Date: 09/07/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Date Received: 08/06/2012

Order: Lakeside Lake

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
12H0137-01	Grab	Storm Water	08/05/2012 2000

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Date Received: 08/06/2012

Case Narrative

The chlorophyll analysis was performed by Bio-Aquatic Testing, Inc. in Carrollton, TX.

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

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Turner Laboratories, Inc.

Date: 09/07/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Lab Sample ID: 12H0137-01

Client Sample ID: Grab
Collection Date/Time: 08/05/2012 2000
Matrix: Storm Water
Order Name: Lakeside Lake

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Nitrogen (NO2+NO3+TKN)-Calculation								
Nitrogen, Total	3.1			mg/L	1	08/15/2012 1600	08/17/2012 1640	EW
Turbidity-E180.1								
Turbidity	200	5.0		NTU	50	08/06/2012 1135	08/06/2012 1150	AC
Anions by Ion Chromatography-E300								
Nitrogen, Nitrate (As N)	1000	1000		ug/L	1	08/06/2012 1100	08/06/2012 1233	EW
Nitrogen, Nitrite (As N)	ND	0.10		mg/L	1	08/06/2012 1100	08/06/2012 1233	EW
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	08/06/2012 1100	08/06/2012 1233	EW
Total Phosphorous as P-H8190								
Total Phosphorus (as P)	0.75	0.50		mg/L	5	08/16/2012 1440	08/16/2012 1755	AC
Total Kjeldahl Nitrogen-PAI-DK01								
Nitrogen, Total Kjeldahl	2.1	0.50		mg/L	1	08/15/2012 1600	08/17/2012 1640	EW
Ammonia as N-SM4500-NH3 B,C								
Nitrogen, Ammonia (As N)	0.52	0.50		mg/L	1	08/22/2012 1400	08/22/2012 1820	EW
Oxygen, Dissolved-SM4500-OG								
Oxygen, Dissolved	8.7	0.10	H5	mg/L	1	08/06/2012 1020	08/06/2012 1030	AC

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208067 - E180.1										
Duplicate (1208067-DUP1)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Turbidity	200	5.0	NTU		200			0.5	10	
Duplicate (1208067-DUP2)		**Source: 12H0039-01**		Prepared & Analyzed: 08/06/2012						
Turbidity	1.6	0.10	NTU		1.6			1	10	
Batch 1208136 - PAI-DK01										
Blank (1208136-BLK1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	ND	0.50	mg/L							
LCS (1208136-BS1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	4.9	0.50	mg/L	5.000		97	80-120			
LCS Dup (1208136-BSD1)				Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	4.8	0.50	mg/L	5.000		96	80-120	1	20	
Matrix Spike (1208136-MS1)		**Source: 12H0045-02**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	54	5.0	mg/L	50.00	3.9	100	80-120			
Matrix Spike (1208136-MS2)		**Source: 12H0157-03**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	0.22	97	80-120			
Matrix Spike Dup (1208136-MSD1)		**Source: 12H0045-02**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	52	5.0	mg/L	50.00	3.9	96	80-120	3	20	
Matrix Spike Dup (1208136-MSD2)		**Source: 12H0157-03**		Prepared: 08/15/2012 Analyzed: 08/17/2012						
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000	0.22	97	80-120	0	20	
Batch 1208172 - SM4500-NH3 B,C										
Blank (1208172-BLK1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	ND	0.50	mg/L							
LCS (1208172-BS1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.4	0.50	mg/L	5.000		108	90-110			
LCS Dup (1208172-BSD1)				Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000		104	90-110	3	10	
Matrix Spike (1208172-MS1)		**Source: 12H0076-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000	0.29	98	70-130			
Matrix Spike (1208172-MS2)		**Source: 12H0445-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	4500	250	mg/L	2500	1700	113	70-130			
Matrix Spike Dup (1208172-MSD1)		**Source: 12H0076-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	5.2	0.50	mg/L	5.000	0.29	98	70-130	0	20	
Matrix Spike Dup (1208172-MSD2)		**Source: 12H0445-01**		Prepared & Analyzed: 08/22/2012						
Nitrogen, Ammonia (As N)	4400	250	mg/L	2500	1700	109	70-130	2	20	
Batch 1208205 - H8190										

Turner Laboratories, Inc.

Date: 09/07/2012

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208205 - H8190										
Blank (1208205-BLK1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	ND	0.10	mg/L							
LCS (1208205-BS1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.48	0.10	mg/L	0.5000		96	90-110			
LCS Dup (1208205-BSD1)				Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.51	0.10	mg/L	0.5000		102	90-110	6	10	
Matrix Spike (1208205-MS1)		**Source: 12G0693-01**		Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.78	0.10	mg/L	0.5000	0.25	106	70-130			
Matrix Spike Dup (1208205-MSD1)		**Source: 12G0693-01**		Prepared & Analyzed: 08/16/2012						
Total Phosphorus (as P)	0.80	0.10	mg/L	0.5000	0.25	110	70-130	3	15	

Client: City of Tucson - Transportation Department
Project: Lakeside Lake
Work Order: 12H0137
Date Received: 08/06/2012

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 1208055 - E300										
Blank (1208055-BLK1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	ND	1000	ug/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
LCS (1208055-BS1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	4700	1000	ug/L	5000		94	90-110			
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500		94	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.3	0.50	mg/L	2.500		94	90-110			
LCS Dup (1208055-BSD1)				Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	4700	1000	ug/L	5000		93	90-110	2	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500		93	90-110	0.5	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.3	0.50	mg/L	2.500		93	90-110	0.9	10	
Matrix Spike (1208055-MS1)		**Source: 12H0133-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5100	1000	ug/L	5000	620	89	80-120			
Nitrogen, Nitrite (As N)	2.2	0.10	mg/L	2.500	0.017	89	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	0.088	103	80-120			
Matrix Spike (1208055-MS2)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5500	1000	ug/L	5000	1000	90	80-120			
Nitrogen, Nitrite (As N)	2.2	0.10	mg/L	2.500	0.022	89	80-120			
Phosphorus, Dissolved Orthophosphate (As P)	2.9	0.50	mg/L	2.500	0.21	107	80-120			
Matrix Spike Dup (1208055-MSD1)		**Source: 12H0133-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5100	1000	ug/L	5000	620	90	80-120	0.5	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500	0.017	90	80-120	0.6	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500	0.088	104	80-120	0.6	10	
Matrix Spike Dup (1208055-MSD2)		**Source: 12H0137-01**		Prepared & Analyzed: 08/06/2012						
Nitrogen, Nitrate (As N)	5500	1000	ug/L	5000	1000	90	80-120	0.3	10	
Nitrogen, Nitrite (As N)	2.3	0.10	mg/L	2.500	0.022	90	80-120	0.9	10	
Phosphorus, Dissolved Orthophosphate (As P)	3.0	0.50	mg/L	2.500	0.21	110	80-120	3	10	

TURNER LABORATORIES INC.
2445 N. Coyote Drive, Suite 104
Tucson, Arizona 85745
(520) 882-5880
Fax: (520) 882-9788
www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1210137 DATE _____ PAGE ____ OF ____

PROJECT NAME Lakeside # 120805
CONTACT NAME Chris McNellis
COMPANY NAME City of Tucson - Transportation Dept
ADDRESS P.O. Box 27210
CITY Tucson STATE AZ ZIP CODE 85726
PHONE (520) 837-6583 FAX (520) 791-4373
SAMPLER'S SIGNATURE Eric Ross

CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX

SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX*	NUMBER OF CONTAINERS	NH_3, Ammonia	Dissolved Oxygen	Nitrate, Nitrite	TKN	Nitrogen, Total Calculation	PO4 Orthophosphate	Total Phosphorus	Turbidity				Chlorophyll
Grab	8-5-12	8:00PM		Storm Water	2	X	X	X	X	X	X	X	X				X

1. RELINQUISHED BY:	2. RECEIVED BY:	TURNAROUND REQUIREMENTS:	REPORT REQUIREMENTS:	INVOICE INFORMATION:	SAMPLE RECEIPT:
Eric Ross Signature ERIC ROSS Printed Name City of Tucson Trans. Dept Firm 8-10-12 / 9:00 AM Date/Time	Signature Printed Name Firm Date/Time	____ Standard (approx.10 days)* ____ Next day ____ 2 Day ____ 5 Day* ____ Email Preliminary Results To: * Working Days	____ I. Routine Report ____ II. Report (includes DUP,MS,MSD, as required, may be charged as samples) ____ III. Date Validation Report (Includes All Raw Data) Add 10% to invoice	Account ____ Y ____ N P.O. # ____ Bill to: ____	Total Containers 3 Temperature 0.6 ☑ Wet Ice ☐ Blue Ice

3. RELINQUISHED BY:	4. RECEIVED BY:	*LEGEND
Signature Printed Name Time	Signature STEPH Lund Printed Name TURNER LABORATORIES, INC. Firm 8-6-12 0900 Date/Time	DW = DRINKING WATER GW = GROUNDWATER SD = SOLID SG = SLUDGE SL = SOIL ST = STORMWATER WW = WASTEWATER

SPECIAL INSTRUCTIONS/COMMENTS:

Compliance Analysis:	☐ Yes	☐ No	Custody Seals	☐	Preservation Confirmation	☑
ADEQ Forms:	☐ Yes	☐ No	Container Intact	☑	Appropriate Head Space	☐
Mail ADEQ Forms:	☐ Yes	☐ No	COC/Labels Agree	☑	Received Within Hold Time	☑

*Ni, Hg, Ag, Cr, Cd, Be, Ba, As, Cu, Sb, Zn, Se, Pb, Tl, Ca, Mg

Composite poured at lab per C.O.T. Specifications

AQUATIC CONSULTING & TESTING, INC.

1525 W. University Drive, Suite 106
P.O. Box 1510
Tempe, Arizona 85281
Phone: (480) 921-8044 • Fax: (480) 921-0049

Lic. No. AZ0003

LABORATORY REPORT

Client: Turner Laboratories, Inc.
2445 N. Coyote Drive
Suite 104
Tucson, AZ 85745
Attn: Terri Garcia

Date Submitted: 08/07/12
Date Reported: 08/22/12

Project: 12H0137

RESULTS

Client ID: 12H0137-01
ACT Lab No.: BU08654

Sample Type: Groundwater
Sample Time: 08/05/12 20:00

Parameter	Analysis Date Start	Analysis Date End	Method No.	MDL	Result	Unit	Analyst
Chl/Pheo Ratio	08/15/12	08/16/12	SM10200 H	1.00	1.2		KLS
Chlorophyll a	08/15/12	08/16/12	SM10200 H	0.10	0.85	ug/L	KLS
Pheophytin a	08/15/12	08/16/12	SM10200 H	0.10	3.33	ug/L	KLS

Reviewed by: _____
Frederick A. Amalfi, Ph.D.
Laboratory Director

SUBCONTRACT ORDER

Turner Laboratories, Inc.

12H0137

SENDING LABORATORY:

Turner Laboratories, Inc.
2445 N. Coyote Drive, Ste #104
Tucson, AZ 85745
Phone: 520.882.5880
Fax: 520.882.9788
Project Manager: Geri Garcia

RECEIVING LABORATORY:

Aquatic Consulting & Testing
1525 W. University Dr., Suite 106
Tempe, AZ 85281
Phone :(480) 921-8044
Fax:

Analysis	Expires	Comments
Sample ID: 12H0137-01 Ground Water Sampled:08/05/2012 20:00		
Miscellaneous Sampling	09/04/2012 20:00	Chlorophyll
Containers Supplied:		
Other (C)		

BU-08654

EXPRESS IT COURIER

Released By: 8-6-12 Date: 1355 Received By: A Zo Date: AUG 07 2012 @ 0821 AZ

Released By: EXPRESS IT Date: Received By: A Zoel Date: AUG 07 2012 @ 0821

SHIPPER NAME: Turner Laboratories Inc.
ADDRESS: 2445 N. Coyote Drive, Suite 104
CITY, STATE: Tucson, Arizona 85745
ZIP:

EXPRESS-IT, INC.

TUCSON 520.792.0335 • PHOENIX 602.254.0666

DATE 8-6-12

CONSIGNEE NAME	CONSIGNEE ADDRESS	CITY	STATE	ZIP	PCS	WGT	SAME DAY	C.O.D. AMT	PPD	COL	DEC VALUE	CHARGES
FIBER QUANT	5025 S. 33rd ST	PHX	AZ	85040	1	12.1			X			$20.53
AQUATIC CONSULTING & TESTING	1525 W. UNIVERSITY DR STE 106	TEMPE	AZ	85281	1	9.45			X			$16.97

DRIVER'S NAME	TIME	C.O.D.S	DEC. VALUE	TOTAL PCS.
Paul	3:57	—	—	2

SHIPPER'S SIGNATURE

EXPRESS-IT, INC. will not pay over $50.00 in the case of loss or damage unless a greater value is declared.
Maximum declared value liability $5000.00.

8:21

STORMWATER
STANDARD OPERATING PROCEDURES
FOR FIELD ANALYSIS
SITES 1 THROUGH 5
AND FIELD SCREEN OUTFALLS

Background
The following procedures were developed as required by the City of Tucson's Stormwater Permit # AZS000001-2010. These Standard Operating Procedures are developed for all analyses conducted in the field. They include field analysis of flow while collecting at each sample site and dry weather flow at field screen outfalls.

Field Screen Outfalls
Sample is collected in stream with a cleaned beaker or ladle.
The color, odor, turbidity, and the presence of oil sheen or surface scum or any other relevant observations regarding the potential presence of non-storm water discharges or illegal dumping shall are noted. The flow rate is observed and noted.

Test strips are dipped in the sample for analysis of pH, total chlorine, total copper, total phenol, and detergents (or surfactants)

Sample Sites
Field parameters at sample sites are pH and Temperature

Calibrate pH meter (instructions attached)

Sample is pumped into a clean beaker or jar using SIGMA 900 Max Automated sampler. pH probe is placed in sample gently stirring until the pH and temperature stabilize (about 1 minute). Readings are recorded.

The SIGMA samplers are programmable, however they do not work properly; they function as pumps.

All sample sites are equipped with communication devices that contact staff when rain has started and again when flow has started. The actual flow rate cannot be determined at the site but from a central location where the data is downloaded. Sampling will commence prior to 0.1" of rainfall to avoid missing the first flush.

Open sites are those that have not been sampled and there hasn't been a qualifying rain event (0.1" of rain or more) at the site for at least 72 hours.

References
40CFR 122.21(g)(7)(ii) Stormwater Discharges
40CFR 122.26(d)(1)(iv)(D)

HANNA pH/EC/TDS Meter Calibration

The new waterproof HI 98130 Combo tester from Hanna is designed for high accuracy pH, EC/TDS, and temperature measurements. No more switching meters to measure the pH and then the EC or TDS of a solution.

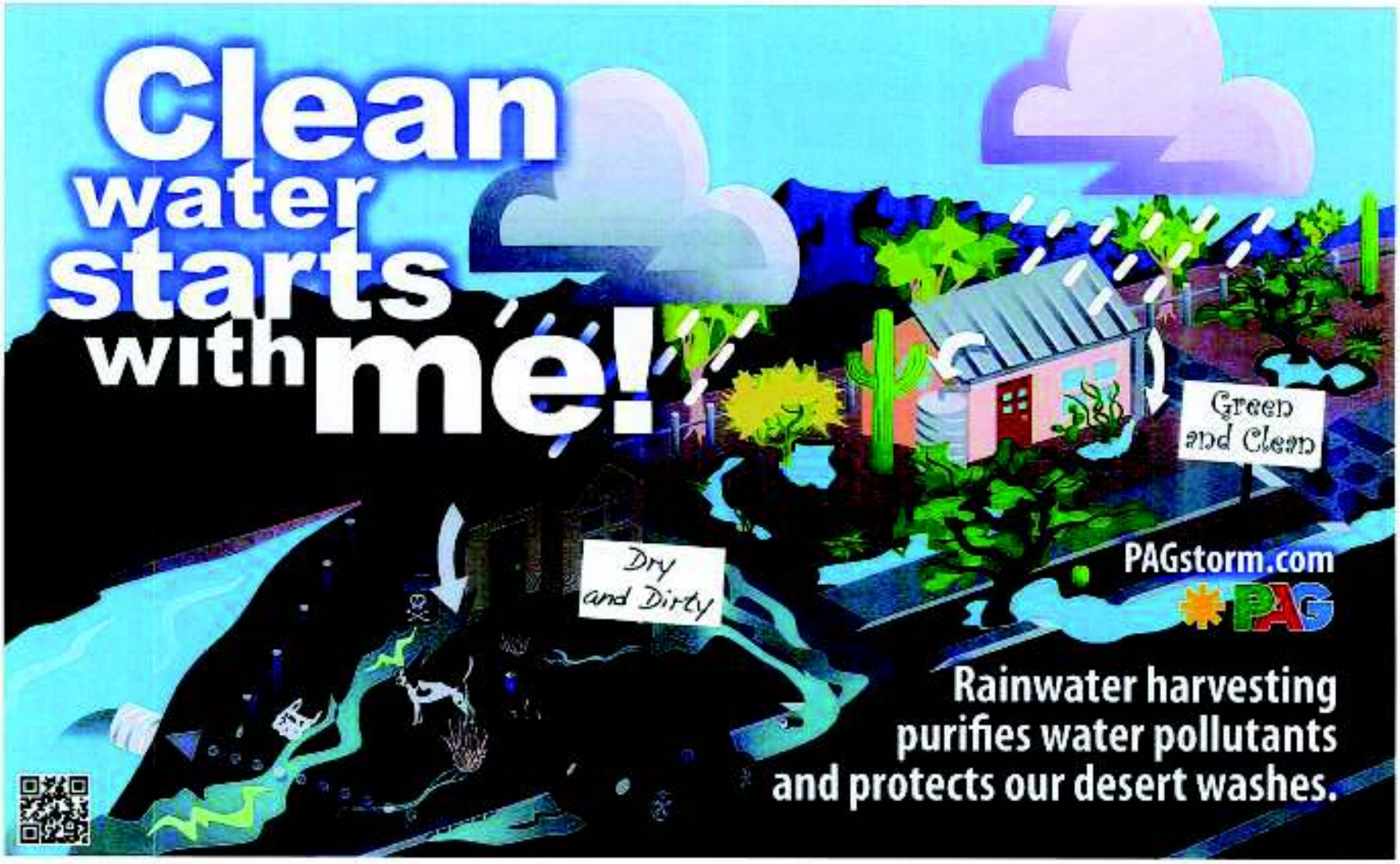
At startup, Combo performs a self check then displays the remaining battery level to assure proper working condition. These testers also have a stability indicator and hold feature to prompt the user when to take the reading & freeze the display for easy and accurate recording.

Calibration and temperature compensation is automatic, while the EC / TDS conversion factor and temperature coefficient factor (ß) are user adjustable for application specific measurements. For calibration in pH, the user may choose between standard or N.I.S.T. buffer sets. The combo has a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode which resists contamination by salts and other substances that come in contact with the electrode.

These new pH / EC / TDS / Temperature meters have a stainless steel temperature probe for faster and more precise temperature measurement. Fast, efficient, accurate and portable, the Combo pH, EC/TDS and temperature tester meets the requirements of your routine multi-measurements.

Specifications:

- Supplied complete with pH electrode, 4 x 1.5V batteries, and electrode replacement tool
- EC Range: 0 to 3999 µS/cm
- TDS Range: 0 to 2000 ppm
- pH Range: 0.00 to 14.00 pH
- Temperature Range: 0.0 to 60.0 °C or 32.0 to 140.0 °F
- EC Resolution: 1 µS/cm
- TDS Resolution: 1 ppm
- pH Resolution: 0.01
- Temperature Resolution: 0.1 °C or 0.1 °F
- Accuracy (@ 20°C/68°F), EC/TDS: ±2% F.S.
- pH: ±0.05
- Temperature: ±0.5 °C or ±1 °F
- EC/TDS Conversion Factor: Adjustable from 0.45 to 1.00
- Environment: 0 to 50°C (32 to 122°F); R.H. 100%
- Auto Shut-off: After 8 minutes



2011 Stormwater Summer Media Campaign - *Clean Water Starts with Me*

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March
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Joined Facebook

Clean Water Starts with Me

327 likes · 20 talking about this · 0 were here

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Local Business
177 N. Church Ave., Suite 405, Tucson, AZ.
1 520.792.1093

327

Pick up where you dog left off... You can help preven stormwater pollution

2

About | Photos | Likes | Videos | Notes

Highlights

Post | Photo

Write something...

Clean Water Starts with Me shared DeepRoot's photo.
Tuesday

Green infrastructure not only uses stormwater for beneficial use, but it also reduces crime? Read and find out...

All about how trees actually make us SAFER!

6 Friends
Like Clean Water Starts with Me

Melanie Alvarez mentioned Clean Water Starts with Me in her link.
July 7, 2011

I just saw Clean Water Starts with Me's new rainwater harvesting

Sponsored

Clean Water Starts w/ Me

Rainwater harvesting saves water and prevents stormwater pollution. Go with the flow - Join the clean water movement!

I love Tucson!

5 New things to do in Tucson everyday.

427,826 people like Groupon.

Cascadian Farm

Is anyone in your circle ready for a shift to organics? Like us to see how easy we've made it to share the lifestyle you love.

Like · 215,926 people like this.

Be Green - Best of the Web

Like this to find out about being green and saving the environment.

Like · 5,126 people like this.

Pima Association of Governments

You are here » Programs Environmental Planning Water PAGStorm - Clean Water Starts with Me

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Quick Links

Environmental Planning

Watershed Planning

Stormwater Program

- Clean Water Starts With Me
- What is Stormwater Pollution?
- Outreach Info and Activities
- Holistic Approach

Clean Water Starts with Me on Facebook

Stormwater Harvesting (1MB pdf)

Keeping waterways clean helps sustain natural desert beauty.

Clean Water Starts With Me

Keeping our desert waterways clean starts with you. Every year, during the monsoon season, it is easy for stormwater runoff to pick up pollutants, such as grease, fertilizer, pesticide and trash, along the way and to deposit the contaminants in our fragile desert washes.

Pima Association of Governments' Stormwater Management Working Group annually conducts a multi-media outreach campaign in an effort to help the public understand the importance of keeping stormwater free of contaminants.

Keeping Our Water Clean

Learn how you can help protect the environment as a conscious commuter, neighbor, citizen or business by reading the following tips and applying them in your everyday lifestyle.

(Click on the topics below for more details, or here to show all details)

Be a Conscious Commuter

- Keep your vehicle leak free
- Properly dispose of oil and automotive fluids
- Use commercial car washes
- Use alternative transportation

Be a Good Neighbor

Contact Info

Mead Mier
Pima Association of Governments
177 N. Church Ave., Suite 405
Tucson, AZ 85701

Phone: (520) 792-1093
Fax: (520) 620-6981

and thus, protects our waters.
www.PAGstorm.com
Clean water starts with me
Stretch Your Water Tutorial

Clean water starts with me!

CleanWaterStartsWithMe-2011-07-MeadFox
00:02

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• Fix leaky vehicles
• Scoop dog poop
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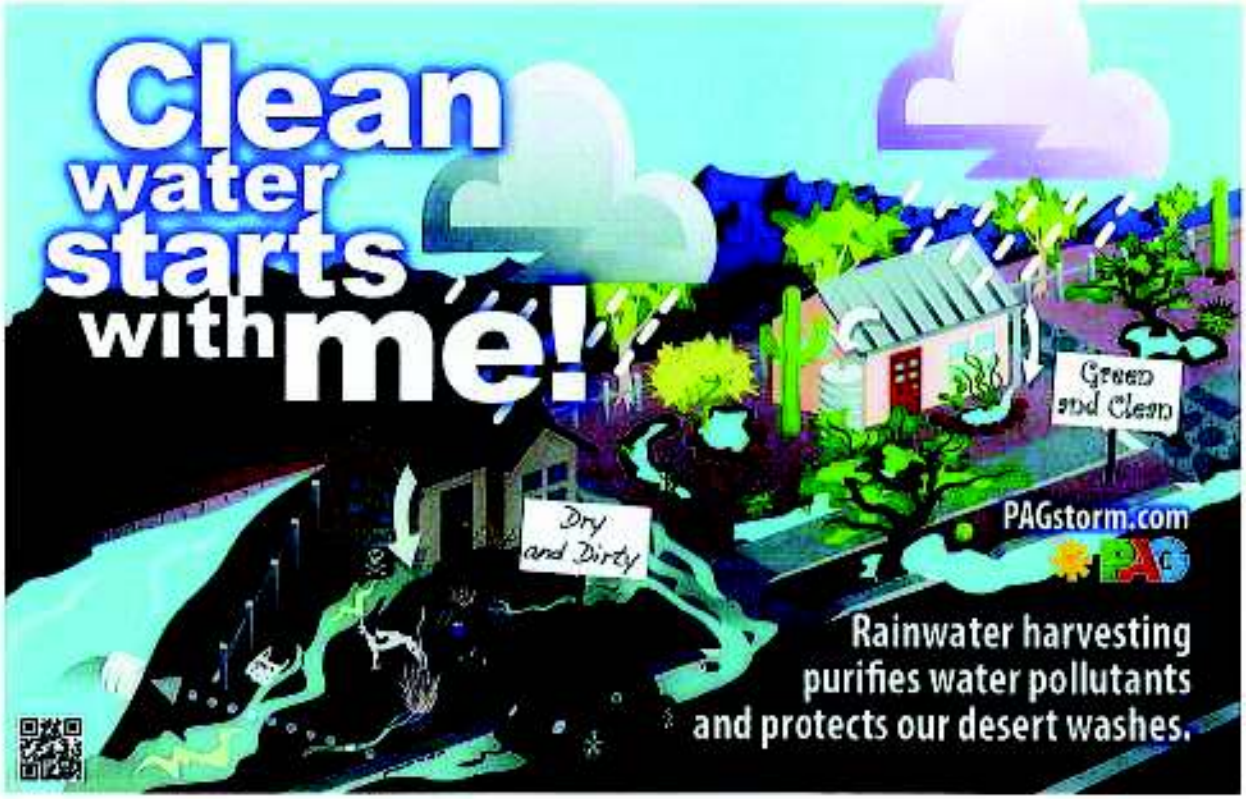
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Rainwater harvesting
purifies water pollutants
and protects our desert washes.

LOFT HOME SLIDE

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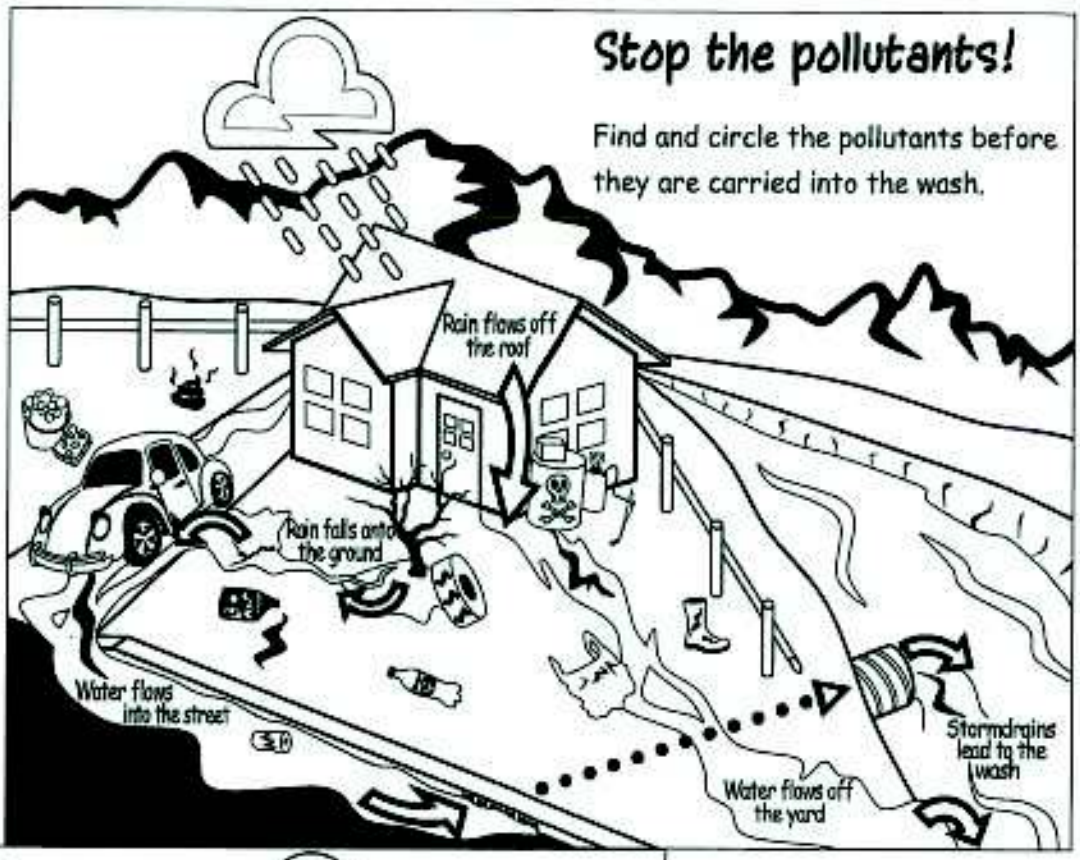
Dry and Dirty
Rainwater harvesting purifies water pollutants and protects our desert washes.
ARIZONABIENNIAL2011
TUCSON MUSEUM of ART
Clean water starts with me!
Clean water starts with me!

Clean water starts with me!

When it rains, stormwater picks up pollutants from our yards and streets and deposits them directly into our fragile desert washes. Remember to always throw trash into a garbage can and encourage your family to recycle and to use chemicals safely.

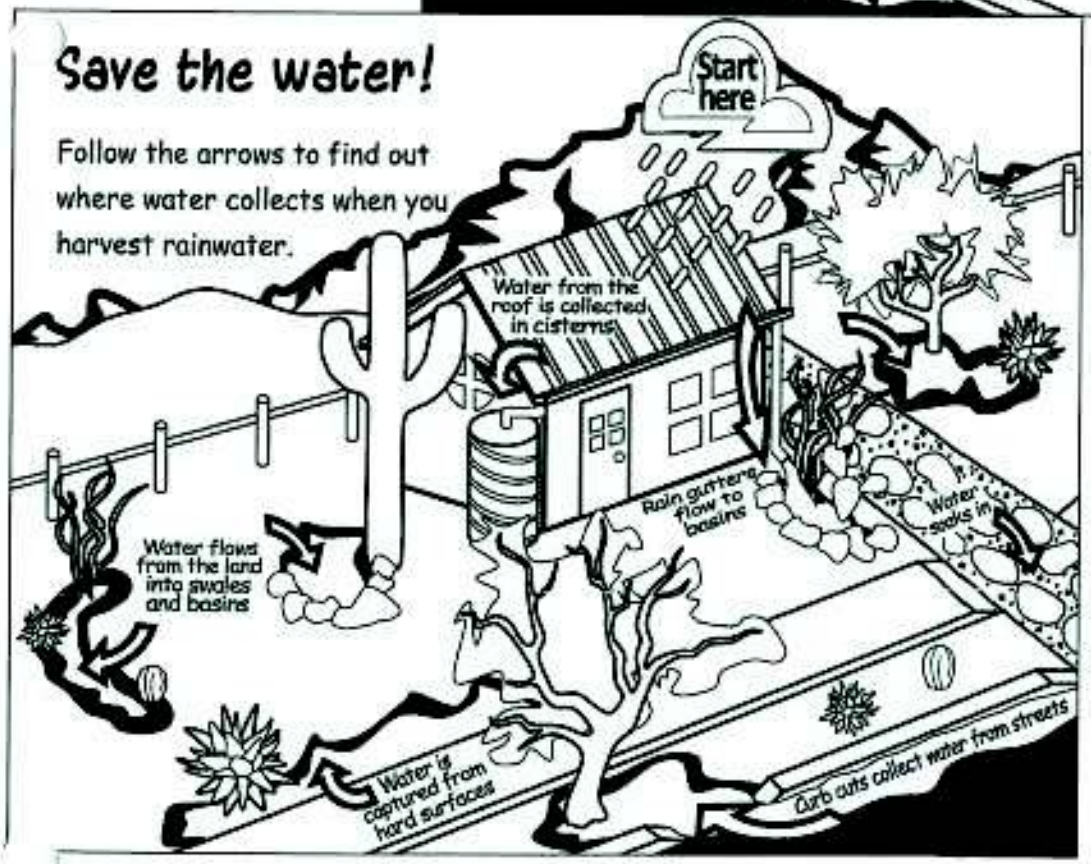
Stop the pollutants!

Find and circle the pollutants before they are carried into the wash.



Save the water!

Follow the arrows to find out where water collects when you harvest rainwater.



Rainwater harvesting is a great way to prevent stormwater pollution. Soil in rain gardens purifies water that is collected from our streets and yards. This helps water plants and prevents stormwater from carrying pollutants to our washes.

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Pima Association of Governments
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Tucson Weekly

2022-10

Clean water starts with me!
• Harvest rainwater
• Don't be a litterbug
• Keep your vehicle leak free
• Use commercial car washes
• Pick up where your dog left off
PAG
PAGstorm.com

New Size A2 Bilingual Ad 10"w X 2.57d

- Lave su vehículo en lavados comerciales de automóviles
- No tire basura
- Recoja el excremento de sus propios animales
- Coseche agua pluvial
- Mantenga su vehículo libre de fugas

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- Lave su vehículo en lavados comerciales de automóviles
- No tire basura
- Cosecho agua pluvial
- Recoja el excremento de sus propios animales
- Mantenga su vehículo libre de fugas

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The following copy was approved for timing and fits within FCC guidelines:

SPOT #1 APPROVED as follows:

Support comes from PIMA ASSOCIATION OF GOVERNMENTS. Storm water travels through streets, picks up pollutants, and accumulates in desert washes. USING COMMERCIAL CAR WASHES AND FIXING LEAKY VEHICLES HELPS prevent Storm water pollution. more ABOUT 'clean water starts with me" IS at P-A-G – storm – DOT - com.

SPOT #2 APPROVED as follows:Support comes from PIMA ASSOCIATION OF GOVERNMENTS, NOTING THAT monsoon rains carry fertilizers and pesticides into desert washes. USING chemical yard products sparingly, keepING them on site, AND never usING THEM before a rain HELPS REDUCE POLLUTION. more ABOUT 'clean water starts with me" IS at P-A-G – storm – DOT - com AND ON FACEBOOK.

SPOT #3 APPROVED as follows:Support comes from PIMA ASSOCIATION OF GOVERNMENTS, WITH A REMINDER about storm water quality. harvesting rainwater in your yard not only nourishES THE SOIL, BUT ALSO HELPS purify storm water and prevent pollution. more ABOUT 'clean water starts with me" IS at P-A-G – storm – DOT – com.

SPOT #4 APPROVED as follows:Support comes from PIMA ASSOCIATION OF GOVERNMENTS. SINGING cicadas AND familiar monsoon thunder ARE REMINDERS THAT "Clean Water Starts With Me." picking up AFTER YOUR DOG HELPS prevent storm water pollution. more IS at P-A-G – storm – DOT - com.

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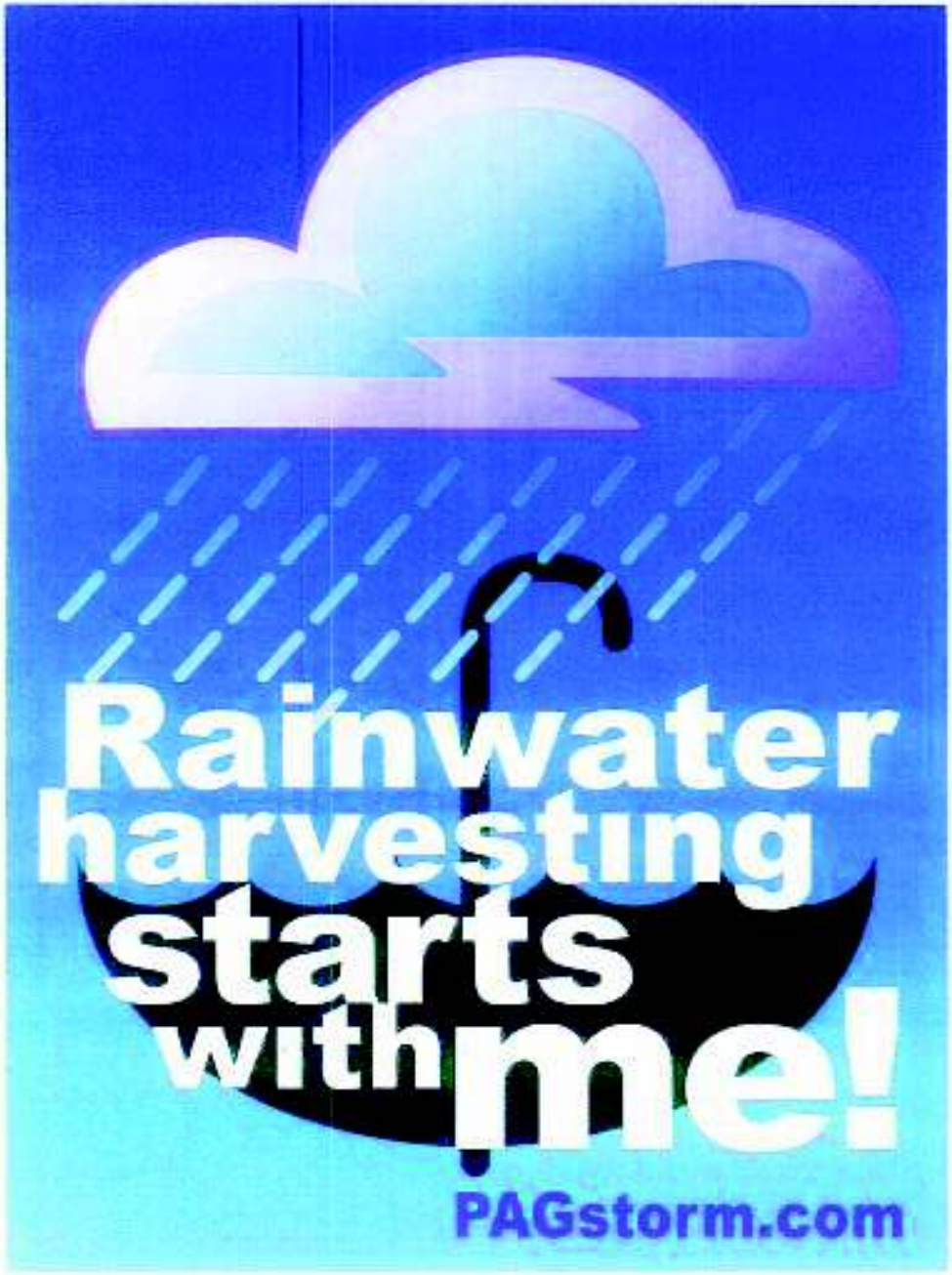
Stickers

Decals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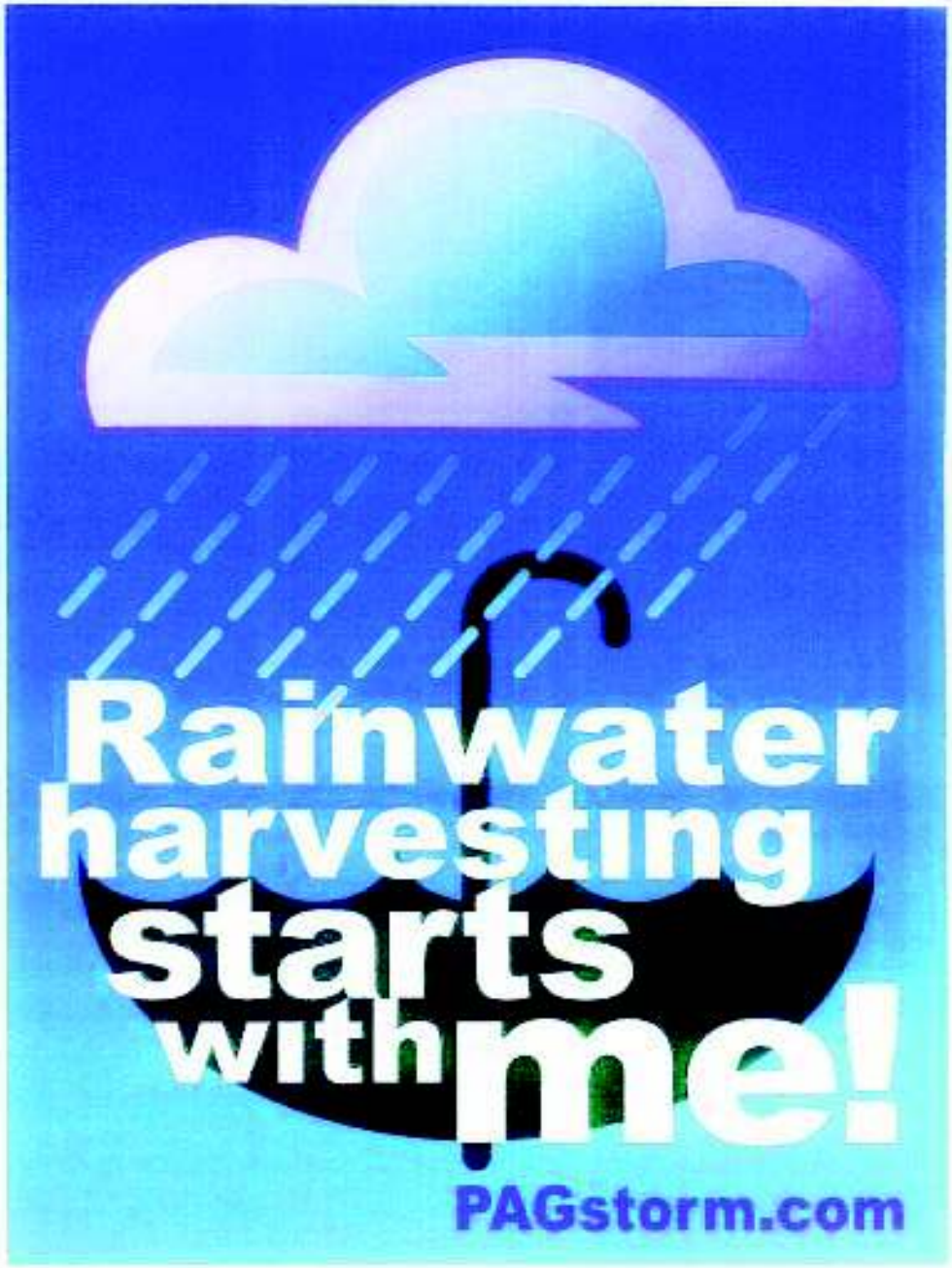
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