:	۰	١	
۰			
L			
	b	b	
í	=		
ļ		J	
	2	P	
Ē	=		
4	4	6	
•		•	
C	7)	
	_	ĺ	
Ξ		1	
7	Į	J	
١			
d	۲		
	_	4	
-	_	1	
-		1	
		1	
-	_	1	
-		1	
-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 7 7	
	τ	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
		1277	
	τ	127777	
	τ	1277	
	τ	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	てスこス		
	てスこス	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	てスこス	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
	τ		
	てスこス	1177 7707 750	

	All Support staff now have a backup. Some positions have multiple backups	There is no succession plan	1.1.p
		Ti cyacow, audio, appropriate	
			1.1.0
Continue to open channels of communication between divisions & reduce "silo" mindset throughout department	Leadership is working on further empowering staff, providing needed resources, & opening communications within department	Support staff were devalued, overworked & underappreciated by other department staff members	1.1.n
Educate other departments on Engineering's core mission& reject future efforts to perform services not part of the department's core mission and/or which circumvent the Purchasing Policy	Services performed for other departments which are not part of the Engineering Services core mission have been identified		
Finalize & implement "On-boarding" materials			1.1.1
The second secon		Attrition rate remains high due to workload and compensation	1.1.k
Advocate for adjustments to Compensation Plan in order that qualified/experienced staff can be hired	Used staff augmentation contracts to bring in qualified/experienced staff to meet needs	Compensation Plan is misaligned with market rates	1 .1.j
	Rewrote Job Assessment Questionaires in order to accomplish goals	HR policies & procedures are inflexible and adversely impact ability to hire and retain qualified staff	1 .1.i
Develop a strategic plan for execution of back to back Bond programs	Used staff augmentation to ramp up to handle the demands	Engineering did not have a strategic plan in place for execution of back to back Bond programs	1.1.h
	construction		
	Created Senior Project Manager position responsible for administrative management of	Construction Engineering had no construction office manager, resulting in	1.1.9
	Several staff members have been trained to act as backup to the Front Desk	Front Desk activities were known & performed by only the temporary employee filling the position	1.1.f
	Moved to an on-line bidding system (CivCast)	Bid process was cumbersome manual process	1.1.e
	Created Quality Assurance position & instituted an assessment of department with identification of deficiencies and implementation of action items to address deficiencies		
	Added IT Manager position	Project management tools were inadequate, unused, and unmanaged	1.1.d
	Expanded recruiting tools to include magazines, job boards, newspapers, job fairs, etc.		
	Construction Inspection RFQ increased the number of qualified and experienced Inspectors		
	Contracted staff augmentation positions		
	Added Administrative Manager to address/manage HR matters	No dedicated staff to focus on recruitment efforts in order to address vacancies	1.1.c
	Created Senior Project Manager position (Augmentee)		
	Created Asst. Director for Construction (Augmentee)		
	Added Assistant Director for Support		
	Created Director of Engineering Services position		
	Created project teams based on functional areas (Street, Utilities, Facilities, etc.)		
	Revised staffing plan to better align w/ Mission requirements	Misalignment between staff capabilities and roles	1.1.b
Continue to open channels of communication between divisions & reduce "silo" mindset throughout department	Support Services staff are empowered to work across divisions for better communications, cohesiveness & problem resolution		
	Created monthly employee/safety meeting for entire department	Lack of communication & team cohesiveness	1.1.a
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem	

	Problem	Actions Taken to Resolve Problem	Strategy Moving Forward
1.2.a	Projects were delayed because contracts or change orders took too long to be executed	Implemented uniform review/approval process, standardized routing sheets, from 4-copy to single-copy contracts, and electronic routing for AE Agreements < \$50K and Construction Change Orders < \$100K	
1.2.b	Agenda memos and presentations were formatted and contained different information depending on who put them together	Standardized Council Agenda Memos & presentations	Continue to develop standardized content
1.2.c	Project documents were inconsistent with naming convention, were stored on many different platforms, and were not centralized for access by all	implemented policies and procedures for document management including transfer of all project files to the Project Management System (PMS).	Need to complete moving all documents to PMS. Need for everyone to be following procedures/standards.
1.2.d	No record retention management (100 years - 1,100 boxes)	Created a staff position responsible for record retention management	
		Developed a Comprehensive Record Retention Program	
		Developed a comprehensive scanning program	Create a division solely responsible for record retention
		Developed record retention in house training program	
		pevenoped record retention in-nouse training program	Bring forward historic electronic date and reconfigure to LaserFiche
1.2.e	Ineffective processes and procedures lead to delays, errors, and incomplete files	Implemented a management steering committee to focus on continuous process improvements	
		Implemented PM and inspector training series including decision making, requirements planning. AE contracting, Change Orders	
1.2.f	Requisition approval in INFOR was delayed because of multiple approvers and approval timeout resubmittals	Approval authority was centralized to one person, with a backup approver	
		Timeout feature for requisition approval was removed, eliminating need for resubmittal	
1.2.g	Contracts were delayed in OMB because funds had not been verified and aligned	Funding is now aligned and verified before the contract goes to OMB for approval	
1.2.h	Invoices sent to Director for approval would be delayed	Invoices not needing a PE's approval have been delegated to the Asst. Director of Support for approval	
1.2.i	Construction tracking log did not track when invoices went to Accounts Pavable	Construction tracking log now includes date invoice went to Finance A/P for payment	
1.2.j	Most current version of Agenda files (Memos, presentations, exhibits, etc.) are not provided timely to leadership		Establish a process to ensure that leadership has the most
1.2.k			STORE OF STREET
1.3. Fu	Funds jeopardized because Federal / State - funded project requirements were not followed	irements were not followed	
	Problem	Actions Taken to Resolve Problem	Strategy Moving Forward
1.3.a	Projects subject to TxDOT/Federal funding were not readily identifiable A summary log of TxDOT-funded projects was not developed	Initiated unique project number to readily identify TxDOT projects Have created and maintained a summary of all TxDOT projects	
1.3.c	Requirements of TxDOT-funded projects weren't being met because not enough members of the Engineering team know about them	Sent significant number of employees to TxDOT LGP training	Provide training and resources so that all Engineering Services positions understand their role(s) regarding TxDOT projects
		Currently developing detailed flowchart of requirements & processes for TxDOT LGP projects	
		A specific employee is assigned as the TxDOT LGP liaison. A "backup" person is also assigned.	
1.3.d	The City was going to lose state/federal funds due because no one had requested reimbursement	Developed work process for TxDOT projects & placed in PAL	
		Assigned specific employee responsible to request reimbursements from TxDOT. Backup is also assigned.	

	Problem	Actions Taken to Resolve Problem	Strategy Moving Forward
1.4 Th	Third Party Funds are not recovered		
1.4.a	Problem Existance of 3rd party reimbursements (ILAs, grants, matching funds, etc.) for specific projects is not communicated throughout department	Actions Taken to Resolve Problem Developing a workflow & process for ensuring that contracts with 3rd party funds due to Develop a workflow & process for ensuring that contracts of the property administrated.	Strategy Moving Forward Develop a workflow & process for ensuring that contracts
1.4.b	Reimbursement doesn't take place because no one is assigned responsibility for administering contracts	Assigned specific employee responsible to request reimbursements. Backup is also assigned.	Develop a workflow & process for ensuring that contracts with 3rd party funds due to City are properly administered
1.4.c	Department is not reimbursed by all City departments for which services are provided (ie. Project mgmnt, Survey, Land Acq., etc)	Recommended the use of allocations through OMB - unsuccessfully	Identify and quantify resources expended in support of departments which do not reimburse the department
1.4.d	General Fund departments do not have funds for Engineering Reimbursements	Funds for Reimbursements are identified prior to execution of contract to the extent funding is available.	Report out unfunded services provided
1.5 Co	Contracting mechanism failed		
	Problem		Strategy Moving Forward
1.5.a	Lack of understanding of JOC Program operating procedures led to continuous challenging of activities within program.	Replaced JOC Facilities program w/ Multiple Award Contract program	Continue to monitor to ensure adequate controls are in place and make adjustments as necessary
1.6 lna	Inadequate administrative controls were in place		
1.6.a	Problem Construction staff work hours could not be verified	Actions Taken to Resolve Problem Removed ability to use "teletime" in Kronos for punching in & out	Strategy Moving Forward Continue to monitor to ensure adequate controls are in
		Installed Kronos time clock at Construction Engineering site	place and make adjustments as necessary
1.6.b	Payroll, HR, IT, AP, QM & training efforts were duplicated in Construction Engineering, leading to duplication of efforts, increased costs & inefficiencies	Responsibilities were centralized to Engineering Services Support group	
1.6.c	Problems with timesheet verification of overtime, missed punches & exception reports	Implemented improved payroll policies and enforced adherence to policy	
1.6.d	ectors were using their personal vehicles to do inspections	Practice was eliminated	
1.6.e	Support staff offices/work spaces were not logically located	Staff members were relocated to group common functions, match location w/ support role	
1.6.f	Department was failing to meet its Funding requirements	FY2014 Engineering Services reimbursement shortfall was recouped and FY2015 funds were appropriated	
1.6.g	Bond funds were not routinely reconciled	Periodic full reconciliation of Bond Funds are performed and provided to Upper Management	
1.6.h	Invoice payments took an average of 90+ days to process	Implemented processes for invoice payment including set review timelines, approval authorities, & electronic routing which reduced processing time to 23 days	
1.6.i		Gave Support staff authority to pull and reroute Approval-delayed documents A comprehensive scanning program has been developed and will be implemented soon	
1.6.1	Electronic copies of records were not available, nardcopies were getting lost, and records/documents were not accessible by multiple staff members	A comprehensive scanning program has been developed and will be implemented soon	
1.6.j	No system for continuous improvement existed	A "Continuous Improvement Department Evaluation Plan" was developed	
1.6.k			
1.6.1	AE invoices got "lost" in the process of being paid	A tracking system was implemented	
1.6.m		Implemented "purple folder" contract review identification procedure	
1.6.n	Contract tracking log was in Access data base, not user-friendly	Converted to Excel	

	Improved selection criteria balanced w/ input from local community		
Create a standardized process that is documented & well understood by staff and the consulting community	Streamlined submission & interview requirements and reduced department costs	AE contracts took too long to be awarded & process was costly	2.1.a
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem	
		Cumbersome & time consuming process for AE RFQ process	2.1 Cun
	PROJECT DEVELOPMENT PROBLEMS	2.	
Assess the cost benefit of eliminating desktop printers Ensure IT Support staff is informed of technical problems	Fixed the broken Plotter / scanner	Only 1 HP Plotter/scanner was functional	1.7.f
Continue to assess resource needs of department and provide as funds are available	Two production level multifunction printer/copiers were brought into the department and other printers were realigned to better serve the department	Project Management and support staff shared two networked printers, only one of which was in the department and the other of which was a production printer	1.7.e
	Invoices are now sent electronically	Hardcopy invoices were sent from Construction for processing leading to time delays in processing	1.7.d
	Notices to Proceed are sent electronically & communicated across the department	Notices to Proceed were mailed out leading to time delays in construction start	1.7.c
Implement the comprehensive scanning program	Developed a comprehensive scanning program using the City's LaserFiche program	Scanned documents were not using City's recognized record retention system (K:\ drive)	1.7.b
Suately Moving Forward	Implemented use of CivCast	Bid documents were not electronic	1.7.a
Strategy Moving Economic	Actions Taken to Resolve Problem	Problem	
Establish and communicate a deadline to other departments for which projects using funds from current fiscal year can be initiated, processed and contracted within Engineering	Have scheduled to send out notice of June 1st deadline	Other departments would try to encumber funds at the end of the fiscal year without executed contracts	1.6.W
Continue to advocate with Finance / MIS for resolution of problem			1.6.v
	Once contract is executed, funding is encumbered		
Develop processes to ensure that contracts, etc. are appropriately aligned to their funding source prior to execution	Controls were set in place to manage expenses by requiring advance approval Correct source of funds is now being identified and appropriately aligned before execution of contract	Contracts and other expenditures were paid out of unaligned sources	1.6.u
		willeage and overtime claims were out of control	1.0.1
	Proactively ordering leased computer renewals		100
	Updated equipment		
Continue performing periodic inventories	Performed comprehensive inventory	Electronic equipment inventory was not maintained	1.6.s
	Added temporary staff to support division Created Senior Project Manager position responsible for administrative management of construction		
	Added administrative oversite to division at Assistant Director level	Clerical staff in Construction office was acting as administrative manager	1.6.r
	Implemented processes for appropriately aligning funds	No detailed Crose-out budget to determine actual project costs	1.0.4
			1.6.p
	Routing slips for "Agenda" and "Non-Agenda" items were created		1.6.0
Strategy Moving Forward	Actions Taken to Resolve Problem	100	

Strategy Moving Forward	Actions Taken to Resolve Problem	Froblem
	ection, design, bid development & award, etc.)	2.5 Failed to follow requirements for TxDOT-funded projects (AE selection, design, bid development & award, etc.)
	Improved design reviews w/ AE presentaton and more consistent reviews w/ rejection of improper submissions	
	Management has empowered PMs to reject designs if comments are not incorporated	
	Plan review comments are now documented in design review procedures	2.4.b Plan review comments were not incorporated in subsequent design submittals
Prepare future Bond packages with scope completion & constructability reviews	Coordinated meetings for Public Works: Engineering, Construction, Land Acquisition & Traffic Engineering	
Strategy Moving Forward	Actions Taken to Resolve Problem	
		2.4 Failed to enforce design standards and perform technical review
	Procuring consultants to help with preliminary engineering studies of potential Bond projects	
Perform preliminary engineering before referendum	Trained PMs on estimating techniques	estimates that were consistently under-estimated
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem 2.3.a Bond 2012 & Bond 2014 Bron 2 developed using in house construction part
		2.3 No or Inadequate Estimating Tools and Techniques
	Successfully reclassified Land Acquisition positions	
	Land Acquisition was integrated into the project management process	
execution of the projects	Enforcement of AE evaluations for positive feedback, future reference & selection	2.2.g Some AE work performed was inadequate
Identify Grant projects as part of Bond project development prior to referendum and "reserve" the funds throughout execution of the projects.	Developed Deconstruct Funding spreadsheet in order to plan funding sources for TxDOT projects	2.2.f Failed to adequately budget for City share on grant funded projects
	Coordinated meetings with stakeholders	
	Introduced 3rd party Subsurface Utility Engineering (SUE) w/ improved timeline	2.2.e Inadequate coordination with franchise utilities in design
Utility work will be incorporated into street project	Problem has been recognized and will steps will be taken to ensure problem does not recur in future programs	
To the maximum extent possible, streets will not be broken into multiple parts	bundled projects where possible for construction	
Preliminary Engineering Studies will be done to ensure project limits are complete and fully functional	Problem has been recognized and will steps will be taken to ensure problem does not recur in future programs	2.2.c Project imits were not logically determined (ie. projects not extended to logical stop points)
Preliminary Engineering Studies will be done to ensure project limits are complete and fully functional	Creatively leveraged funds from grants to cover costs	
on and growing to mail a	Coordinated meetings with stakeholders	.2.a
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem
	s prior to project implementation	2.2. Inadequate Planning, Scoping or Preliminary Feasibility Reports prior to project implementation
Expand use of MSAs	Increased use of Master Services Agreements (MSA) w/ staff-approvable task orders	
Apply same technique to large AE contracts	Flowcharted small AE contracting process & streamlined; anticipate cutting processing time in half	
Strategy moving Forward		
Stratony Mouing Economic	Actions Taken to Resolve Problem	Problem

	Added Senior Program Manager to provide add'l oversight & direction		
	The state of the s		
	planning, AE contracting, Change Orders Added experienced construction staff through staff automorphism		
	Implemented inspector training series including decision making, requirements	.c Inspectors could not readily provide guidance to contractors	3.2.c
Project anticipated workload and adjust accordingly	nstruction Inspection RFQ; increased number of qualified & experienced		3.2.b
	Sent employees to TxDOT Local Government Project training	 a TxDOT-funded project funds in jeopardy because requirements were not met 	3.2.a
Strategy Moving Forward	Actions Taken to Resolve Problem		
	certifications with continual reports of conflicts and delays	Inadequate construction team resources, training & certification	3.2 Ina
	City uniforms policy was implemented for Inspectors	.f Contractors could not identify City Construction Inspectors to know that they were present	3.1.#
			3.1.e
	Implemented standardized Construction Progress Meetings Implemented PM and inspector training series including decision making, requirements planning, AE contracting, Change Orders	d Projects were not managed to stay within budget & within scope	3.1.0
	Smaller construction packages to increase construction resources & competition Revised timeline to seasonal construction vs calendar eyar Changed cost & quantity tracking to individual streets rather than DO "Real-time" automated PCI survey w/ inventory of ADA ramps, markings, etc.		
Ensure feedback from Construction is included in Engineer evaluations	or positive feedback, future reference & selection		3.1.b
	Implemented procedures for timely response to contractors re: field changes & direction		
Strategy Moving Forward Continue to open channels of communication between divisions & reduce "silo" mindset throughout department	Actions Taken to Resolve Problem Coordinated meetings for Public Works: Engineering, Construction, Land Acquisition & Traffic Engineering	.a Lack of cohesiveness within department	3.1.a
ecreased quality assurance	3.1 Disconnect between Engineering & Construction Office creates loss of design scope enforcement, cost increases, schedule losses, & decreased quality assurance	isconnect between Engineering & Construction Office creates	3.1 Dis
	3. PROJECT EXECUTION PROBLEMS		
	And more responsible to request reimoursements from IXDOI		
Ensure required processes/procedures are followed	Developed work process for TxDOT projects & placed in PAL	.c The City was going to lose the ability to be awarded state/federal funds due because no one had requested reimbursement for funds already awarded	2.5.c
	A specific employee is assigned as the TxDOT LGP liaison. A "backup" person is also assigned.		
	Currently developing detailed flowchart of requirements & processes for TxDOT LGP projects		
Train Project Managers so that they can ensure requirements are met from design through close-out	Sent significant number of employees to TxDOT LGP training		2.5.b
	Initiated unique project number to readily identify TxDOT projects		2.5.a

Strategy Moving Forward	Actions Taken to Resolve Problem Initiated unique project number to readily identify TxDOT projects	3.6.a Projects subject to TxDOT/Federal funding were not readily identifiable	ω
	• • • • • • • • • • • • • • • • • • • •		
	octs	3.6 Failed to follow requirements for reimbursement on TxDOT projects	3.6
Consistently provide feedback to AEs	staff		(L)
Strategy Moving Forward	Actions Taken to Resolve Problem Introduced 3rd party Subsurface Utility Engineering (SLIE) w/ improved timeline	3.5.a Plans were bid with significant utility conflicts, resulting in change orders and	ω
		Inadequate coordination w/ fran	3.5
Contractor and AE evaluations post-project are documented and filed in central location for easy reference	Developed & Implemented Debarment Ordinance	3.4.d City had no mechanism for preventing award of contracts to construction companies with histories of repeatedly failing to meet project schedules	(0)
More closely monitor execution of IDIQ contracts & increase PM involvement; communicate concerns more effectively with AE.	Implementing changes to SPMP: • Smaller construction packages to increase construction resources & competition • Revised timeline to seasonal construction vs calendar eyar • Changed cost & quantity tracking to individual streets rather than DO • "Real-time" automated PCI survey w/ inventory of ADA ramps, markings, etc.	3.4.c 12-month program for seal coat work was executed in 19 months, leading to delay of implementation of 2nd year of work, as well as rework associated with pavement degradation during "off" period	
Implement electronic collaboration tools to meet schedule commitments	Implemented standardized Construction Progress Meetings		(0)
	Implemented procedures for timely response to contractors re: field changes & direction	3.4.a Field changes or direction take too long to be resolved	(1)
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem	
		3.4 Project Schedules were Not Followed	3.4
Improve the constructability of plans by incorporating a more active role of construction management in project execution Identify and mitigate potential change orders early	Leadership has communicated that holding to project scope is a priority	3.3.c Too many change orders were being issued	
More closely monitor execution of IDIQ contracts & increase PM involvement; communicate concerns more effectively with AE.	 Smaller construction packages to increase construction resources & competition Revised timeline to seasonal construction vs calendar eyar Changed cost & quantity tracking to individual streets rather than DO "Real-time" automated PCI survey w/ inventory of ADA ramps, markings, etc. 	D.G. experiorities were poorly controlled	
	Implemented standardized Construction Progress Meetings Construction Inspection RFQ will allow more inspectors in field to control adherence to approved project scope Implemented PM and inspector training series including decision making, requirements planning, AE contracting, Change Orders		
Strategy Moving Forward	Actions Taken to Resolve Problem	3.3 Lack of Well-defined Scope / Budget Control	3.3
Strategy moving Forward	Purchased new trucks, retained older trucks as backups	3.2.e Inspectors had to share City vehicles	
Strategy Moving Forward	Actions Taken to Resolve Problem	Problem	

	Problem	Actions Taken to Resolve Problem	Strategy Moving Forward
3.6.b	Requirements of TxDOT-funded projects weren't being met because not enough members of the Engineering team know about them	Sent significant number of employees to TxDOT LGP training	Provide training and resources so that all Engineering Services positions understand their role(s) regarding TxDOT projects
		Currently developing detailed flowchart of requirements & processes for TxDOT LGP projects	
		A specific employee is assigned as the TxDOT LGP liaison. A "backup" person is also assigned.	
3.6.c	The City was going to lose state/federal funds due because no one had requested reimbursement	Developed work process for TxDOT projects & placed in PAL	
		Assigned specific employee responsible to request reimbursements from TxDOT	
	Problem		
3.7.a	Multiple PM software systems had been "thrown away" because staff did not	Actions Taken to Resolve Problem	Stratony Moving England
	use them	Problem Actions Taken to Resolve Problem Multiple PM software systems had been "thrown away" because staff did not lexisting project management software existing project management software	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration
3.7.b	use them	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration
	use them No one was using the existing PM software	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Strategy Moving Forward Enhance effectiveness of EPM for online collaboration Strategy Moving Forward Enhance effectiveness of EPM for online collaboration	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration Include add'l training for staff on EPM Enhance effectiveness of EPM for online collaboration
3.7.c	use them No one was using the existing PM software	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration Include add'l training for staff on EPM Enhance effectiveness of EPM for online collaboration Include add'l training for staff on EPM
	No one was using the existing PM software There was no champion for the existing PM software	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Assigned backup Include add" training for staff on EPM for online collaboration Include add" training for staff on EPM for online collaboration Include add" training for staff on EPM for online collaboration Include add" training for staff on EPM for online collaboration Assigned backup Include add" training for staff on EPM for online collaboration Enhance effectiveness of EPM for online collaboration	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration Include add'l training for staff on EPM Enhance effectiveness of EPM for online collaboration Include add'l training for staff on EPM Include add'l training for staff on EPM
274	No one was using the existing PM software There was no champion for the existing PM software	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Assigned backup	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration include add'l training for staff on EPM Enhance effectiveness of EPM for online collaboration include add'l training for staff on EPM Enhance effectiveness of EPM for online collaboration include add'l training for staff on EPM Include add'l training for staff on EPM
	No one was using the existing PM software There was no champion for the existing PM software IT support within department was inadequate	Actions Taken to Resolve Problem Included a Quality Assurance Manager in staff augmentation to facilitate use of the existing project management software Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Upper management empowered QA Manager to "push" forward use of the existing PMS Assigned backup Hired an IT employee responsible for addressing technology needs of the department including EPM	Strategy Moving Forward Enhance effectiveness of EPM for online collaboration Include add'I training for staff on EPM Enhance effectiveness of EPM for online collaboration Include add'I training for staff on EPM Enhance effectiveness of EPM for online collaboration Include add'I training for staff on EPM Enhance effectiveness of EPM for online collaboration