

**Houston-Galveston Area Council
 FY2016-2017 Clean Rivers Program
 Contract No. 582-18-80290
 Progress Report**

FY 2019 - Quarter 3: Covering March 1, 2019 through May 31, 2019

Deliverable		Due Date	Deliverable Status Date Submitted	Quarterly Activity And Summary
Task 1	Administration			
	General Information			
		12/15/17	12/15/17	Ranatunga, Lei, Sambidi, and Lee met with Hoffman, Wright, and Merrell to work on an SOP for updating the GIS databases and updating the WRIM data. Hoffman had found some sites to be missing and since there had been staff turn-over and reassignment of duties, all staff needed to know who was responsible for what actions.
		3/15/18	3/15/18	CRP staff met with Forecasting Staff Sungmin Lee and Thushara Ranatunga to discuss options for how to create an interactive web based, 2018 Basin Highlights Report. Ranatunga conducted analyses on land cover data for the BHR.
		6/15/18	6/14/18	CRP staff met with Forecasting Staff Lee, Zhou, and Sambidi to work through issues that were found while reviewing the interactive web-based platform for the 2018 Basin Highlights Report. CRP has been short one full-time employee for approximately 5-6 months. Rachel Fields' time was split working between two projects at H-GAC. Very recently, Fields was officially transferred out of the Clean Rivers Program to the other project. Her vacancy will be temporarily filled by a college student intern for the summer while efforts are made to fill that full-time position.
		9/15/18	9/14/18	Lei Zhou's last day at H-GAC was 8/16/18. Will Merrell's last day at H-GAC was 8/23/18.
		12/15/18	12/14/18	Lee worked with Hoffman to uploading revised database for WRIM replacing monitoring station pages, graphs, and tables on the web site. Lee also uploaded Texas Stream Team's monitoring stations locations and station pages. Vetter met with CRP staff to discuss expectations of the interactive Story Map web application including TCEQ accessibility requirements. He has begun testing some customization of the Story Map software to determine whether it will allow us to do what we envision.
		3/15/19	3/15/19	Vetter worked on BHR storyboard creating and converting map that will be

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				<p>included within the report.</p> <p>Lee uploaded WRM database including replacing monitoring stations pages, graphs, and tables on the website and application; uploading Texas Stream Team's monitoring stations pages and data; and reviewing and updating the Geospatial Data Management Plan for the next QAPP.</p> <p>Michel created a map of the Oyster Creek watershed for a presentation.</p>
		6/15/19	6/14/19	<p>Vetter worked on the design and layout of the 2019 BHR. He made changes as requested to the BHR application and moved the application from the development environmental to the production environment on the H-GAC server.</p> <p>Lee uploaded data to the WRIM including replacing monitoring station pages, graphs, and tables on the website and application.</p> <p>Lee updated Texas Stream Team's monitoring station pages and data.</p>
		8/31/19	8/30/19	<p><i>Raman Bakari's last day at H-GAC was 7/5/19.</i></p> <p><i>Becki Begley's last day at H-GAC was 8/14/19.</i></p>
1A	Progress Reports			
		12/15/17	12/15/17	Majority of the 8 th Quarter of FY17 progress report was sent to TCEQ via e-mail on 10/17/17. The close-out progress report was sent via e-mail on 11/30/17.
		3/15/18	3/15/18	The 1 st Quarter of FY18 progress report was sent to TCEQ via e-mail on 12/15/17.
		6/15/18	6/14/18	The 2 nd Quarter of FY18 progress report was sent to TCEQ via e-mail on 3/15/18.
		9/15/18	9/14/18	The 3 rd Quarter of FY18 progress report was sent to TCEQ via e-mail on 6/15/18.

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		12/15/18	12/14/18	The 4 th Quarter of FY18 progress report was sent to TCEQ via e-mail on 9/14/18. After the invoice was submitted, an addition was made to the progress report and resubmitted on 10/12/18.
		3/15/19	3/15/19	The 1st Quarter of FY19 progress report was sent to TCEQ via e-mail on 12/14/18.
		6/15/19	6/14/19	The 2nd Quarter of FY19 progress report was sent to TCEQ via e-mail on 3/15/19.
		8/31/19	8/30/19	<i>The 3rd Quarter of FY19 progress report was sent to TCEQ via e-mail on 6/14/19.</i>
1Ai	Reimbursement Forms			
		12/31/17	12/31/17	The FY17-Q4 voucher was sent to TCEQ on 10/25/17. The final voucher is expected to be sent before the end of December 2017.
		3/15/18	3/15/18	The FY18 - 1 st Quarter voucher was sent to TCEQ on 12/29/17.
		6/15/18	6/14/18	The FY18 - 2 nd Quarter of FY18 voucher was sent to TCEQ via e-mail on 3/28/18.
		9/15/18	9/14/18	The FY18 - 3 rd Quarter of FY18 voucher was sent to TCEQ via e-mail on 6/28/18.
		12/15/18	12/14/18	The FY18 - 4 th Quarter of FY18 voucher was sent to TCEQ via e-mail on 9/26/18. A revised invoice was submitted on 10/31/18.
		3/15/19	3/15/19	The FY19 - 1 st Quarter voucher was sent to TCEQ on 1/2/19.
		6/15/19	6/14/19	The FY19 - 2 nd Quarter voucher was sent to TCEQ on 4/2/2019.
		8/31/19	8/30/19	<i>The final submission of the 2nd Quarter voucher with all corrections and updates was submitted to TCEQ on 6/28/19. Regarding the 3rd Quarter voucher. On 6/27/19, H-GAC got an extension to 7/5/19, but for some reason Raman did not submit it to TCEQ before his last day on the 5th. The voucher was submitted to TCEQ on 7/25/19 by Keenan, Raman's supervisor. Keenan was not aware that the voucher had not been sent to TCEQ as required.</i>
1B	Annual Self Evaluation	8/31/18	8/30/18	H-GAC's annual self-evaluation was submitted to TCEQ on 8/30/18.
		8/31/19	8/30/19	<i>H-GAC's annual self-evaluation was submitted to TCEQ on 8/29/19. See attached document.</i>

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1B	Annual Subcontract Evaluations	8/31/18	8/30/18	Annual self-evaluations were completed for all sub-contracted local partners – HHD, EIH, TRIES & Eastex Lab – and were submitted to TCEQ on 8/30/18.
		8/31/19	8/30/19	<i>Annual self-evaluations were completed for all sub-contracted local partners – HHD, EIH, TRIES & Eastex Lab – and were submitted to TCEQ with the quarterly report on 8/30/19. Copies of all evaluations are attached.</i>
1C	Procurement Procedures Documentation – upon execution of the subcontracts	As Needed	3/15/18	H-GAC’s Procurement Policy and Procedure Manual v2.18 was sent to TCEQ on 3/14/18.
1F	Participation at CRP Planning Meetings	As Needed	10/12/17	H-GAC staff participated in the state-wide CRP partners conference call with TCEQ.
			11/6/17	H-GAC staff met with our TCEQ PM to review H-GAC’s ideas and plans for the 2018 Basin Highlights Report.
			12/11/17	H-GAC participated in the state-wide CRP partners conference call with TCEQ.
	Participation at CRP Planning Meetings	As Needed	10/24/18	H-GAC staff participated in the state-wide CRP partners conference call with TCEQ.
			6/4/19	H-GAC staff participated in the state-wide CRP partners conference call with TCEQ to discuss issues for the draft FY20-21 QAPP.
			8/21/19	<i>H-GAC staff and TCEQ met to discuss the new special study to be conducted during the next biennium. It was made clear that TCEQ could not fund ‘end of pipe’ monitoring, only ambient water quality. H-GAC will pursue other funds for those types of samples. QAPP development needs to begin in September 2019.</i>
1D	Submission of documents for Site Visit or Desk Review	Upon Request		
1H	Attendance at Training Events	As Needed	12/15/17	11/6--9/17 – Hoffman and Fields attended the 31 st Annual SWQM Workshop held at the Mayan Ranch, Bandera, TX.
			6/6/18	Running, Wright, Hoffman, and Begley attended the state-wide CRP meeting in Seguin, TX. Running and Begley gave presentations about ‘Outreach Efforts and Messaging’. Staff met on westside of Houston to carpool to Seguin, TX.

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			10/29-30/18	Janhsen attended a two-day Social Media Marketing Seminar in Houston. The seminar would help advertise CRP and all water resources group public outreach events and activities.
			11/12-14/18	Wright, Casillas, and Guidroz attended the annual SWQM Training Conference at Mo Ranch outside of Hunt, TX.
			6/4/19	<i>Running, Wright, and Hoffman participated in the CRP conference call with all River Authorities to discuss the new QAPP, amendments, and audits.</i>
1I	Financial Audit Letter	Within 270 days of end of H-GAC fiscal year	9/29/18	H-GAC's Financial Audit Report was submitted to TCEQ after the H-GAC board approved it at the meeting on 6/18/18.
Task 2	Quality Assurance			
2A	Laboratory/NELAP updates	12/15/17	12/15/17	Proficiency test samples were purchased for the City of Houston HHD, City of Houston DWO, and HCPCS laboratories on 9/19/17, at a total cost of \$1,393. H-GAC prepared a check in the amount of \$1265 for COH Drinking Water Operations NELAP accreditation renewal fees on 10/27/17.
		3/15/18	3/15/18	Proficiency test samples were purchased for the City of Houston HHD, City of Houston DWO, and HCPCS laboratories. The purchase order was issued by H-GAC 3/13/18, and the total cost of \$1,414. The vendor will not bill H-GAC until samples are shipped in April 2018.
		6/15/18	6/14/18	PT samples were sent out in early April. Local partner labs – Houston Health Department, Houston Drinking Water Operation, and Harris County Pollutions Control received their samples in early April. All lab passed.

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	Laboratory/NELAP updates. (continued)	9/15/18	9/14/18	<p>A purchase request was submitted for the October round of proficiency test samples. NSI Lab Solutions will ship samples to City of Houston HHD, City of Houston DWO, and Harris County Pollution Control at a total cost of \$1414</p> <p>City of Houston DWO provided their most recent TCEQ TNI audit to Hoffman upon his request, following notification of findings related to analyses performed for CRP. Evaluation of the impact on data quality is pending.</p>
		12/15/18	12/14/18	<p>H-GAC is preparing a check in the amount of \$1265 for a portion of the City of Houston Drinking Water Operations Laboratory <u>NELAP accreditation fees</u>. The check will be delivered by courier in early December.</p>
		3/15/19	3/15/19	<p>H-GAC prepared a check in the amount of \$1265 for a portion of the Harris County Pollution Control Services <u>NELAP accreditation fees</u>. The check was delivered to HCPCS in January 2019.</p>
		6/15/19	6/14/19	<p>A purchase order in the amount of \$1,575 for proficiency test samples for COH HHD, COH DWO, and HCPCS was forwarded to NSI Solutions Inc on 3/12/19. The samples will ship in early April.</p> <p>H-GAC received a TNI-mandated “Client Notification” from COH DWO on 3/8/19 regarding critical findings in the most recent TNI audit that suggested some TSS results were unusable due to method violations. H-GAC submitted at DCR to TCEQ requesting qualification of the data.</p>
		8/31/19	8/30/19	<p><i>H-GAC prepared a purchase order in the amount of \$210.00 on 6/27/19 for the purchase of two nitrite-N proficiency test samples for the City of Houston HHD so they could restore accreditation for nitrite-N by IC for FY2020-2021 monitoring.</i></p>
2A	Basin Wide QAPP Receipt and Commitment Letters	10/15/17	10/2/17	<p>These letters are not required because all partners signed the QAPP. Electronic copies of the QAPP were distributed immediately after approval back on October 2, 2017. I have electronic responses of them receiving the electronic version. Hard copies of the entire QAPP, including the map, were passed out at</p>

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				the Regional Monitoring Workgroup meeting on 12/12/17. Partners signed a form indicating they had received the hard copy.
2A	Draft FY 2020-21 Basin-wide QAPP	6/15/19 Extension to 6/21/19	6/21/19	<i>The draft FY2020-2021 QAPP was submitted to TCEQ on 6/21/19.</i>
2A	Final FY 2020-21 Basin-wide QAPP	8/15/19 Extension to 8/23/19	8/22/19	<i>Comments on the draft FY20-21 QAPP were received from TCEQ on 8/9/19. H-GAC requested an extension to 8/23/19 when it became obvious not all comments could be addressed before the 8/15/19. All QAPP comments were addressed and all files sent back to TCEQ for final review. As soon as TCEQ approves, signature pages will be acquired from local partners. In the meantime, the FY18-19 QAPP has been extended through 9/30/19 because the final review has not been completed.</i>
2B	Specified Sections of the Regional QAPP posted to the Web	10/31/17	12/14/17	Hard copy document was scanned and posted to the website along with the last appendices from the previous QAPP.
2C	Draft QAPP Appendix B amendment for FY2019 Monitoring	6/15/18	6/15/18	The draft of Amendment No. 1 (Appendix B) was submitted to TCEQ on 6/14/18. At the PM's request, it was combined into 1 version (a PDF version) and resubmitted on 6/18/18.
2D	Final QAPP Appendix B amendment for FY2019 Monitoring	8/15/18	8/15/18	Multiple versions of the 'final' Appendix B were submitted to TCEQ beginning 7/31/18. After several reiterations, the document was approved signed off as approved by TCEQ on 8/31/18.
2E	Planning meeting for special studies or permit support monitoring -- (90 days prior to the planned sampling date)	As Needed	9/11/18	PM Rodibaugh met with H-GAC staff and Jenny Oakley, EIH partner representative, to discuss the flow ratings curve project that CRP was funding during FY2019. PM will present information to TCEQ to determine whether the flow ratings curve maintenance will require a QAPP amendment or not.
			8/21/19	<i>TCEQ PM Rodibaugh and Eagle met with H-GAC's Running, Wright, Casillas, Guidroz, and Hoffman to discuss the special project being planned for FY2020-2021.</i>
2F	Planning meeting notes for special studies or permit support monitoring	Within two weeks of meeting	8/30/19	<i>Minutes for the special study meeting will be completed within two weeks but are not included in this quarterly report.</i>

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2G	QAPP Appendices for special studies	As Needed, within 30 days of planning meeting		
2H	QAPP Amendments & Revisions to Appendices	As needed, if applicable	12/14/18	Amendment No. 2 was initially submitted on 10/1/18. TCEQ comments were received back and H-GAC made modifications. Another draft was sent back on 12/10/18 for TCEQ review.
			3/15/19	Appendix K to the FY18-19 Basin-wide QAPP was submitted to TCEQ on 1/30/19. Comments were returned to H-GAC on 2/20/19 with a response sent on 3/11/19. TCEQ had a couple more questions on 3/13/19 and H-GAC responded on the same day.
2I	QAPP Appendix and Amendment QAPP receipt and commitment letters	As needed, if applicable	9/11/18	The approved QAPP Amendment No. 1 was sent out via e-mail to all local partners on 8/31/18. Hard copies were passed out to all partners, except SJRA which will be sent via mail, on 9/11/18. Representatives from all local partners signed for their copies at the Regional Monitoring Workgroup meeting.
2J	Participate in TCEQ Monitoring Systems Audit and Respond to Comments	As Needed		
2K	Conduct on-site oversight assessments of sub-participants once during each project or once during the contact cycle	Once During Contract 8/31/19	11/15—16/17	Wright and Hoffman conducted an on-site field audit and data processing audit on the SJRA water monitoring program. The report is still being finalized and will be sent to TCEQ as soon as it is finished. There were several issues that are going to need to be addressed in the coming months before H-GAC is totally satisfied that improvements have been made and fully incorporated into the program.
			10/31/18	Wright conducted an on-site audit and data management audit on TRIES water quality monitoring program. A hard copy of the audit report plus an electronic version of the audit report, response table, and cover letter were sent to TRIES on 11/19/18.
			1/14-15/19	Wright conducted an on-site field and data management audit on the EIH program. Due to Wright's medical incident and subsequent hospitalization, a hard copy of the audit report plus electronic versions of the audit report were

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				not sent to EIH until 3/1/19. There were NO findings identified during the audit, only 2 recommendations were made.
			4/9/19	Wright and Hoffman conducted a data management audit at SJRA on 4/9 at the Lake Conroe office. There were 4 findings and 1 recommendation from this audit.
			4/17/19	Wright, Casillas, and Guidroz conducted a biological monitoring field audit of EIH at the Cypress Creek site at Hwy 249. There were no findings during this audit.
			6/26/19	<i>Wright and Guidroz conducted a field audit of HHD's monitoring program on 6/26/19. They met with Montemayor and Leija to review data management and QA. They shadowed Leija into the field to observe her collecting samples.</i>
			7/10/19	<i>Wright conducted a field audit of DWO's monitoring program on 7/10/19. Wright went into the field to observe the Lake Houston run and audit a couple of newer employees.</i>
			7/15/19	<i>Wright and Hoffman conducted a data traceability audit of the HCPCS monitoring program on 7/15/19. This was the first CRP audit for the HCPCS Lab QAO. An extensive data management review was made.</i>
2L	On-site Project Assessment Report and Response	With Progress Report 8/31/19	12/5/18	TRIES sent back their audit response. Copies of are attached to this quarterly report.
			1/9/19	While the SJRA audit was conducted back in November 2017, it was a very difficult report to write up and it kept being put aside for other more critical issues (SJRA voluntarily sends data to CRP). The audit report was finally finished and sent to SJRA January 9, 2019. A few positive findings were identified but six recommendations and five negative findings were also identified during the audit. Fortunately, collecting and handling of the water samples were not an issue. The issues were primarily with saving data, managing data, and tracing data from beginning to end through documentation. The audit report and response are attached. Wright had several back and forth conversations and e-mails with SJRA before closing the audit. It 'looks' like they have their processes in order now. SJRA was told that another field

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				and data audit would be conducted in the spring of 2019. In the meantime, H-GAC is going back to processing and reviewing SJRA data. All 'good' data will be turned in. What is questionable, will be removed from the data sets.
			3/15/19	The audit report was finished and sent out to EIH on 3/1/19. A copy of the audit report is attached for review. A response has not been received from EIH yet.
			6/14/19	The audit reports were finished for all audits conducted during this quarter and sent to the local partner for responses. Audit report packets are attached for each of the three audits conducted: The EIH audit from January 2019; the SJRA data management audit from April 2019; and the EIH biological audit from April 2019.
			8/30/19	<i>The HHD audit report was completed and sent on HHD on 7/12/19. HHD sent their response to the audit describing all the actions taken to correct any findings and recommendations on 8/5/19. The audit report packet is attached.</i>
			8/30/19	<i>The DWO audit report was completed and sent to DWO on 7/16/19. DWO responded to all findings and recommendations on 8/15/19. They sent supporting documentation along with their response. The audit report packet is attached.</i>
			8/30/19	<i>The HCPCS audit report was completed and sent to HCPCS on 7/30/19. They responded to all findings and recommendations on 8/23/19. The audit report packet is attached.</i>
2M	Corrective Action Report status	With Progress Reports	12/15/17	There is nothing new to report on Corrective Action Reports. Only CRP 17-003 is still pending. Have not finished dealing with all the SJRA issues.
			3/15/18	CRP 17-003 is still pending.
			6/14/18	CRP 17-003 is still pending. One more data submission will be evaluated before this Corrective Action Plan is closed.
			12/14/18	CRP 17-003 is still pending.
			3/15/19	CRP 17-003 is still pending. Hoffman is processing SJRA data from FY2018 to determine if the same problems still exist.

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		With Progress Reports	6/14/19	<p>CAP 17-003 is still pending. Wright need to sit down with Hoffman to discuss whether this is still an issue. SJRA has implemented numerous changes but H-GAC may need one more data set to determine whether the issue has been resolved.</p> <p>CAP 19-001 was issued 5/7/19 after the SJRA data management audit. The findings involved having no QAPP available to employees and no document regarding staff training and CAPs. <u>This CAP is still pending.</u> Report is attached.</p> <p>CAP 19-002 was issued 5/7/19 after the SJRA data management audit. The findings involved failure to create corrective action plans for noncompliance with QAPP and SOPs. <u>This CAP is still pending.</u> Report is attached.</p> <p>CAP 19-003 was issued 5/7/19 after the SJRA data management audit. The findings involved sending data that failed post cal-check to H-GAC and only marking it on the Data Review Checklist. This CAP was closed on 5/28/19. Report is attached.</p> <p>CAP 19-004 was issued 5/7/19 after the SJRA data management audit. The findings involved SJRA needing to implement a system where they are tracking changes they make to the data sent to H-GAC for submission to TCEQ. <u>This CAP is still pending.</u> Report is attached.</p>
2M	Corrective Action Report status	With Progress Reports	8/30/19	<i>The CAPs associated with SJRA's operations are still open pending H-GAC making a site visit to verify that all issues have been adequately addressed and can be closed. H-GAC plans to make a site visit in September.</i>
2N	Summary of training for local agencies	As needed, if applicable	3/15/18	The 12/12/17 RMW meeting is used as the annual re-training/review of the SWQM procedures. Representatives from both field staff and lab staff are requested to be in attendance. Only SJRA was missing from that meeting.

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			12/11/18	The 12/11/18 RMW meeting is used as the annual re-training/review of the SWQM procedures. Representatives from both field staff and lab staff are requested to be in attendance. Representatives from all local partners and the contract lab were in attendance at the meeting.
Task 3	Water Quality Monitoring			
3A	Conduct Water Quality Monitoring and Summarize Activities	With Progress Reports	12/15/17	<p>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 9/12/17, at H-GAC. Verbal reports about local monitoring programs were given. Wright led a discussion about reporting Flow Severity with field data. TCEQ Project manager attended meeting to help with discussion about changing duties and responsibilities section in the QAPP. After much discussion, the topic was set aside pending specific changes needed to approve draft QAPP. H-GAC will revisit this issue in the future. Meeting summary notes attached.</p> <p>As of the end of November 2017, H-GAC's routine ambient monitoring program is up-to-date. All sites were monitored and samples collected as planned. Six out of six 24-hr DO sondes were deployed during the quarter as planned. See H-GAC's monitoring tracking sheets attached for complete number of H-GAC's monitoring efforts. Tracking sheets include both ambient monitoring and 24-hour DO.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples but not as planned. The DWO Laboratory moved locations between September and November. As a result, samples were not collected from Lake Conroe, Lake Houston, nor the Lake Houston watershed sites. SJRA also had equipment issues which resulted in lost DO data. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a</p>

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				tracking sheets. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.
	Conduct Water Quality Monitoring and Summarize Activities (continued)	3/15/18	3/15/18	<p>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 12/12/17, at H-GAC. Verbal reports about local monitoring programs were given by all local monitoring programs except SJRA and USGS. Wright passed out the hard copies of the FY18-19 QAPP to supplement the electronic version sent out in early October 2017. Certified, traceable thermometers were given out to several monitoring programs since they do not have a lab on-site and the data sondes are to be checked on monthly or bi-monthly basis. Since this meeting is primarily used as a re-training/review meeting of all SWQM procedures, H-GAC put the review questions in the form of a Jeopardy game and all persons attending the meeting participated in the game and multiple discussions about the correct answers. Meeting summary notes attached.</p> <p>During the second quarter, no monitoring was conducted by H-GAC. Rather the sampling schedule was put off until early March 2018. All sampling was conducted before the 15th and will be reported in the next report.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter including all missed samples not collected during the 1st quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a tracking sheets. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p>
3A	Conduct Water Quality Monitoring and Summarize Activities (continued)	6/15/18	6/14/18	<p>There was no CRP Regional Monitoring Workgroup meeting this quarter. Instead, local partners attended the annual CMM. Partner information needed for the TCEQ quarterly report was collected via e-mail and phone solicitation. Next meeting is scheduled for Tuesday, 6/12.</p> <p>Fields research and help develop safety protocols to create an in-house Safety SOP to cover all field work at H-GAC. Once it is finalized, it will be shared</p>

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				<p>with other local partners. A few other CRP state-wide partners have asked for a copy as well.</p> <p>During the third quarter, H-GAC conducted an entire round of monitoring that was held over from the 2nd quarter. Limited 3rd quarter monitoring was conducted by H-GAC in May. Monitoring was scheduled at the beginning of the month, however, heavy rainfall in the area during the previous two evenings where 24-hour sondes were planned to be deployed, prevented their deployment. All four locations were found to be in flood stage so the deployment was postponed. The next day, the field crew was able to deploy one sonde in the northeast area of the region where less than a quarter of an inch of rainfall occurred during the same time period. See attached tracking sheets for H-GAC's routine monitoring and 24-hour DO. Wright met with EIH staff in Clear Lake area on 8/24/18 to work on and test River Surveyor equipment used to collect flow data from unwadeable streams. H-GAC was having trouble with our unit and we were trying to determine why it was working intermittently and not all the time.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter including any missed samples not collected during the 2nd quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p>
3A	Conduct Water Quality Monitoring and Summarize Activities (continued)	9/15/18	9/14/18	<p>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 9/11/18, at H-GAC. Verbal reports about local monitoring programs were given by all local monitoring programs except SJRA and USGS. Wright passed out the hard copies of the FY18-19 QAPP Amendment No. 1 to supplement the electronic version sent out on 8/31/18. Two presentations were given at the meeting: an update on Watershed Protection Plans in the greater H-GAC region and Galveston Bay Foundation Water Quality Program and</p>

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				<p>Projects. Meeting summary notes attached.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter including any missed samples not collected during the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p> <p>During the fourth quarter, H-GAC conducted an entire round of monitoring plus caught up on monitoring missed from previous quarter. The M-9 River Surveyor flow board was finally repaired during July/early August and the crew was able to use it late in August. All 24-Hr DO sites were at normal flow stage so sondes could be deployed. All missed deployments were also picked up during this quarter. See attached tracking sheets for H-GAC's routine monitoring and 24-hour DO.</p>
3A	Conduct Water Quality Monitoring and Summarize Activities (continued)	12/15/18	12/14/18	<p>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 12/11/18, at H-GAC. The meeting summary will be provided with the next quarterly report.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter and picked up any missed sites from the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p> <p>During the first quarter of FY2019, H-GAC conducted a full round of monitoring. See attached tracking sheet for H-GAC's routine monitoring. The two 24-hour DO sites were also successfully monitored in early October.</p>

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				<p>See attached tracking sheet for H-GAC's 24-hour monitoring. In September, H-GAC began collecting flow measurements and field parameters at three sites in the West Fork San Jacinto River segment. Sampling was completed at 2 sites in September, October and November but only two events were conducted at one site due to losing the antenna to the M9River Surveyor. That event will be rescheduled later in the fiscal year. See attached tracking sheet the special flow monitoring.</p>
3A	Conduct Water Quality Monitoring and Summarize Activities (continued)	3/15/19	3/15/19	<p>The quarterly CRP Regional Monitoring Workgroup meeting held on Tuesday, 12/11/18. The meeting summary notes are attached for review. There was a presentation given by a TCEQ staff member regarding the use of flow and flow severity in the Integrated Report. Then, the annual training event was conducted in the second half of the meeting.</p> <p>Since the next gathering of Regional Monitoring Workgroup will not be until the Coordinated Monitoring meeting in April, local partner monitoring information was gathered via e-mail and telephone. All local partners continued to conduct regular water quality monitoring as planned. Local partner also collected TKN samples and Chlorophyll a samples during the quarter and picked up any missed sites from the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p> <p>During the second quarter of FY2019, H-GAC conducted a full round of monitoring. See attached tracking sheet for H-GAC's routine monitoring. The two 24-hour DO sites were also successfully monitored in early October. See attached tracking sheet for H-GAC's 24-hour monitoring. All routine and 24- hr DO monitoring were completed over 6 days in January 2019- three days in early January and three days in late January. The SonTek M9 RiverSurveyor was repaired and flow monitoring at the 3 locations was completed during January and February 2019. Field parameters were collected</p>

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				<p>at each during each event. See attached tracking sheet the special flow monitoring.</p> <p>H-GAC set up the Coordinated Monitoring Meeting for Tuesday, April 23, 2019. It will be conducted over an entire day at H-GAC.</p>
3A	Conduct Water Quality Monitoring and Summarize Activities (continued)	6/15/19	6/14/19	<p>There was no CRP Regional Monitoring Workgroup meeting this quarter. Instead, local partners attended the annual CMM. Partner information needed for the TCEQ quarterly report was collected via e-mail and phone solicitation. Next meeting is scheduled for Tuesday, 6/11.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter and picked up any missed sites from the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review.</p> <p>During the third quarter of FY2019, H-GAC conducted a full round of monitoring. See attached tracking sheet for H-GAC's routine monitoring. The two 24-hour DO sites were also successfully monitored – one event in April and one event in May. See attached tracking sheet for H-GAC's 24-hour monitoring. The SonTek M9 RiverSurveyor was acting up a little but flow monitoring at the 3 locations was completed during March, April, and May 2019. Field parameters were also collected at each during each flow monitoring event. See attached tracking sheet the special flow monitoring.</p>
		8/31/19	8/30/19	<p><i>The quarterly CRP Regional Monitoring Workgroup meeting was held on Tuesday, 6/11/19, at H-GAC. The meeting summary is provided with this quarterly report. A presentation on creating a monitoring SOP was given to encourage local partners to create their own. The purpose of such a plan</i></p>

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				<p>would be for safety, consistency between samplers, and future training of new staff members. Meeting Summary Packet is attached.</p> <p>All local partners continued to conduct regular water quality monitoring programs. Local partner also collected TKN samples and Chlorophyll a samples during the quarter and picked up any missed sites from the previous quarter. See attached Percent Complete report and separate tracking sheets for TKN and chlorophyll a. Because TRIES collect neither TKN nor Chlorophyll a samples, a routine monitoring tracking sheet is also included for review as well as routine monitoring tracking sheets for EIH.</p> <p>During the fourth quarter of FY2019, H-GAC conducted a full round of monitoring. See attached tracking sheet for H-GAC's routine monitoring. The two 24-hour DO sites were also successfully monitored – both events were conducted in July. See attached tracking sheet for H-GAC's 24-hour monitoring. The SonTek M9 RiverSurveyor was repaired and flow monitoring at the 3 locations was completed during June, July, and August 2019. Field parameters were also collected at each during each flow monitoring event. See attached tracking sheet the special flow monitoring.</p>
3C	Coordinated Monitoring Meeting	4/3/18	4/3/18	The annual Coordinated Monitoring Meeting (CMM) was conducted on Tuesday, 4/3, at H-GAC. Representatives from all local partners, except SJRA, attended during the day. SJRA called and discussed their monitoring plans with H-GAC's QAO two weeks prior due to the potential of SJRA staff being out on paternity leave. It was well planned since the paternity leave started the weekend prior to the CMM.
		4/23/19	4/23/19	The annual Coordinated Monitoring Meeting (CMM) was conducted on Tuesday, 4/23, at H-GAC. Representatives from all local partners, except DWO and SJRA, attended during the day. Wright had spoken to SJRA's Simpson a couple of weeks before. Simpson had said he would attend the meeting even though there would be no changes. Main discussions centered around HHD shallow sites and EIH's trading sites with TCEQ's FO.

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3D	Coordinated Monitoring Meeting Summary of Changes	2 weeks after CM meeting or 5/15/18	4/16/18	A summary of changes from the CMM was submitted to TCEQ Project Manager on 4/16, one day before the deadline. A complete meeting summary packet is attached.
		2 weeks after CM meeting or 5/15/19	4/30/19	A summary of changes from the CMM was submitted to TCEQ Project Manager on 5/30. A complete meeting summary packet is attached. The document was revised slightly after getting comments back from TCEQ PM.
3E	Email Notification to CRP Manager that statewide CMS update has been completed	5/31/18	5/31/18	E-mail notification of the CMS being updated was completed on 5/31. H-GAC did not receive HHD site recon information until the end of May. Hoffman has submitted SLOC requests and is waiting for approval from TCEQ. Subsequently, there are a few sites that do not have SLOCs so the CMS must be revisited as soon as the SLOC IDs are issued and TCEQ has submitted a new master list to LCRA. After that, LCRA must update the CMS list of stations on the web site. Sequences!
		5/31/19	5/31/19	E-mail notification of the CMS being updated was completed on 5/31.
3E	Special Study Status Reports	Quarterly after start of project	8/30/19	<i>The special flow monitoring project on Caney and Oyster Creeks was completed by EIH. The final report was finished and is attached. The activity included operating a gage at each station that could accurately predict the flow in each stream continuously throughout the month between actual measured flow events.</i>
3F	Special Study – Site Characterization – DRAFT Report(s)	5/1/19	8/30/19	N/A
3H	Special Study – Site Characterization – FINAL Report(s)	8/1/19	8/30/19	N/A
Task 4	Data Management			
4A	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report	12/1/17	12/1/17	Harris County PCS data for June 2017 through September 2017 were submitted to TCEQ on 11/28/17. Data were accepted by TCEQ 2/1/18. SJRA data for January through June 2017 were submitted to TCEQ on 11/22/17. There were 347 events and 3,280 results. Revised data were submitted 3/5/18. Data are under review at TCEQ.

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				<p>City of Houston DWO data for June 2017 through September 2017 were submitted to TCEQ on 11/28/17. There were 36 events and 917 results. Data were accepted by TCEQ 2/1/18.</p> <p>Environmental Institute of Houston data for July 2017 were submitted to TCEQ on 11/30/17. There were 155 events and 2,278 results. Data were accepted by TCEQ 2/1/18.</p> <p>City of Houston HHD data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 399 events and 9,545 results. Data were accepted by TCEQ 2/1/18.</p> <p>H-GAC ambient monitoring data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 22 events and 612 results. Data were accepted by TCEQ 2/1/18.</p> <p>H-GAC 24-Hour DO data for June 2017 through August 2017 were submitted to TCEQ on 11/30/17. There were 6 events and 90 results. Data were accepted by TCEQ 2/1/18.</p> <p>TRIES data for June and August 2017 were submitted to TCEQ on 11/28/17. There were 20 events and 540 results. Data were accepted 2/18/18 by TCEQ.</p>
4A	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report (continued)		3/1/17 Due Date Extended to 3/22/18	HHS data for October and November 2017 were submitted to TCEQ on 3/13/18. There were 266 events and 6219 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ 5/21/19.

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				<p>COH DWO data for December 2017 were submitted to TCEQ on 3/12/18. There were 21 events and 528 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ 5/8/19.</p> <p>TRIES data for October 2017 were submitted to TCEQ on 3/6/18. There were 9 events and 234 results. Data were accepted 4/18/18 by TCEQ. Data were accepted by TCEQ 5/8/19.</p> <p>EIH data for November 2017 were submitted to TCEQ on 3/12/18. There were 151 events and 2027 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ, date unknown.</p> <p>HCPC data for October-December 2017 were submitted to TCEQ on 3/6/18. There were 160 events and 2041 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ 5/6/19.</p> <p>H-GAC ambient data for October 2017 were submitted to TCEQ on 3/7/18. There were 21 events and 551 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ 5/6/19.</p> <p>H-GAC 24-hour DO data for October 2017 were submitted to TCEQ on 3/7/18. There were 6 events and 90 results. Data were accepted by TCEQ 6/14/18. Data were accepted by TCEQ 5/6/19.</p> <p>SJRA data is being processed. It was received late and had many questions and formatting issues to deal with. It will be submitted as soon as the final review is completed.</p>

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4A	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report (continued)	6/15/18	6/15/18	No data was submitted during this period.
		9/15/18	9/14/18	<p>SJRA data for October – December 2017 were submitted to TCEQ on 8/1/18. There were 186 events and 1377 results. Data are under review at TCEQ.</p> <p>SJRA data for January-May 2018 were submitted to TCEQ on 8/1/18, but at the request of the TCEQ PM the data was separated into Lake Conroe and Lake Woodlands datasets and resubmitted 9/10/18.</p> <p>SJRA Woodlands data for January-May 2018 were submitted to TCEQ on 9/10/18. There were 79 events and 809 results. Data are under review at TCEQ.</p> <p>SJRA Lake Conroe data for January-May 2018 were submitted to TCEQ on 9/10/18. There were 209 events and 1698 results. Data are under review at TCEQ.</p> <p>EIH data for January and April 2018 were submitted to TCEQ on 8/1/18 and resubmitted with corrections 9/10/18. There were 282 events and 3647 results. Data were approved by TCEQ 9/19/18.</p> <p>HCPC data for January-May 2018 were submitted to TCEQ on 7/25/18. There were 233 events and 2935 results. Data were approved by TCEQ 9/19/18.</p> <p>H-GAC data for January-May 2018 were submitted to TCEQ on 7/30/18. There were 36 events and 832 results. Data were approved by TCEQ 10/4/18.</p> <p>City of Houston HHD data for January-April 2018 were submitted to TCEQ on 7/25/18. There were 532 events and 11,360 results Data were approved by TCEQ 9/7/18.</p>

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				<p>City of Houston DWO data for January-May 2018 were submitted to TCEQ on 7/25/18. There were 79 events and 1797 results. Data were approved by TCEQ 9/19/18.</p> <p>TRIES data for January and April 2018 were submitted to TCEQ on 7/25/2018. There were 20 events and 520 results. Data were approved by TCEQ but the exact date of approval has not been provided to H-GAC.</p>
4A	Surface Water Quality Monitoring data files, SWQMIS Validator Report and Data Summary Report (continued)	12/1/18	11/2/9/18	<p>City of Houston DWO data for September-December 2018 were submitted to TCEQ on 2/27/19. There were 58 events and 1313 results. Data were accepted by TCEQ 5/8/19</p> <p>TRIES data for December 2018 were submitted to TCEQ on 2/25/19. There were 10 events and 220 results. Data were accepted by TCEQ 5/6/19</p> <p>EIH data for July 2018 were submitted to TCEQ on 2/28/19. There were 161 events and 1925 results. Data were accepted by TCEQ 5/8/19.</p> <p>Harris County PCS data for September-December 2018 were submitted to TCEQ on 2/28/19. There were 262 events and 2748 results. Data were accepted by TCEQ 5/6/19</p> <p>City of Houston HHD data for September-December 2018 were submitted to TCEQ on 2/25/19. There were 266 events and 5670 results. Data were accepted by TCEQ 5/21/19</p> <p>H-GAC ambient and 24-hour DO data for September-December 2018 were submitted to TCEQ on 2/25/19. There were 30 events and 683 results. Data were accepted by TCEQ 5/8/19.</p>
			6/14/19	<p>H-GAC submitted ambient, 24-hour DO, and biological/habitat data collected by EIH at 2 sites in 2017 on 3/26/19. There were 3 events and 92 results in the ambient files, 3 events and 60 results in the 24-hour DO files; and 3 events (15</p>

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			<p>unique TAG IDs) and 384 results in the biodata file. Data are under review at TCEQ.</p> <p>H-GAC discovered that identified species counts were not included in the 3/26/19 submission of biological data collected by EIH at 2 sites in 2017. . Revised biodata files were submitted to TCEQ 6/12/19. There were 3 events (15 unique TAG IDs) and 489 results. Data are under review at TCEQ. Data are under review at TCEQ.</p> <p>H-GAC submitted a revised text files for one DO event from 2015 on 6/12/19. Because the original submission had the same TAG ID as an existing event. TCEQ requested the revision in 2017, but Hoffman had overlooked the request until the second request was received 4/12/19.</p>
		8/21/19	<p><i>City of Houston DWO data for January-May 2019 were submitted to TCEQ on 7/30/19. There were 74 events and 1682 results. Data are under review at TCEQ.</i></p> <p><i>TRIES data for January-April 2019 were submitted to TCEQ on 7/29/19. There were 20 events and 412 results. Data were accepted by TCEQ 8/13/19.</i></p> <p><i>EIH data for January-April 2019 were submitted to TCEQ on 7/30/19. There were 314 events and 3838 results. Data were accepted by TCEQ 8/13/19.</i></p> <p><i>Harris County PCS data for January-May 2019 were submitted to TCEQ on 7/30/19. There were 230 events and 2917 results. Data are under review at TCEQ.</i></p> <p><i>City of Houston HHD data for January-April 2019 were submitted to TCEQ on 7/30/19. There were 532 events and 11271 results. Data are under review at TCEQ.</i></p>

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				<i>H-GAC ambient and 24-hour DO data for January-May 2019 were submitted to TCEQ on 7/29/19. There were 59 events and 1335 results Data were accepted by TCEQ 8/13/19.</i>
4B	Surface Water Quality monitoring data updates posted to the web or link to TCEQ water quality data.	2/1/18	2/1/18	Updated Access databases were added to the H-GAC CRP website on 1/18/18.
		8/1/18	8/1/18	Updated Access databases were added to the H-GAC CRP website on 7/18/18.
		2/1/19	1/29/19	Updated Access databases were posed to the H-GAC CRP website 1/29/19
		8/1/19	7/18/19	<i>Updated Access databases were posed to the H-GAC CRP website 7/18/19.</i>
4C	Provide Summary of Database and GIS Upgrades	2/1/18	2/1/18	Data and station pages on the WRIM were updated 11/15/17. Data and station pages on the WRIM were updated 1/19/18 and 3/5/18.
		8/1/18	8/1/18	Data and station pages on the WRIM were updated 6/16/2018.
		2/1/19	2/1/19	Data and stations pages on the WRIM were updated for only TST data during in this period. That action is completed on the 15 th of every month.
		8/1/19	6/13/19	<i>Data and station pages on the WRIM were updated 6/13/19</i>
4	Data Correction Request Forms	As Needed	12/15/17	Hoffman submitted a DCR to TCEQ 10/4/17 to correct 34 flow values reported previously by SJRA. TCEQ completed the corrections 10/18/17.
			8/14/18	Hoffman submitted a data resubmittal form for TRIES data on 6/25/18. During the annual TNI audit, a TSS method deviation was noted and documented as a finding in the audit report. H-GAC did not believe data quality was compromised.
		As Needed	12/14/18	There were no DCRs during this quarter.
			3/15/19	There were no DCRs during this quarter.
	Data Correction Request Forms	As Needed	6/14/19	A data correction request was submitted to TCEQ on 4/11/2019. H-GAC requested qualification of 201 TSS results submitted by COH DWO, based on method deviations discovered during TNI audit. TCEQ reported that the DCR was completed 5/2/19.

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	Station Location Request Forms	As Needed	12/15/17	Two SLOC requests to create a station were requested and approved in this period (9/22/17 and 9/28/17). Eight SLOC change requests were made 10/23/17. All have been approved.
			8/14/18	There were no SLOC requests during this quarter.
			12/14/18	There were no SLOC requests during this quarter.
			3/15/19	There were no SLOC requests during this quarter.
			6/14/19	<i>A SLOC request was submitted to TCEQ 5/30/19. It was approved by TCEQ 7/23/19.</i>
			8/21/19	<i>A SLOC request was submitted to TCEQ 6/29/19. It was approved by TCEQ 7/23/19.</i>
Task 5	Data Analysis and Reporting			
	General Data Analysis Activities	12/15/17	12/15/17	Hoffman conducted preliminary data analysis and revised SAS code in preparation for the 2018 Basin Highlights Report.
		3/15/18	3/15/18	Hoffman conducted extensive data analysis and prepared multiple tables and 1,104 graphs/charts for the 2018 Basin Highlights Report.
		6/15/18	6/14/18	Hoffman conducted additional data analysis for the 2018 Basin Highlights Report. Fields conducted some data analysis on CRP and Texas Stream Team data to be used in several watershed reports.
			8/14/18	There was no general data analysis conducted during this quarter.
			12/14/18	Hoffman conducted general data analysis for the 2019 BHR.
		3/15/19	3/15/19	Hoffman conducted limited follow-up data analysis for the BHR.
			6/14/19	<i>Hoffman conducted general data analysis in preparation for the CMM meeting in April.</i>
			8/14/19	<i>Hoffman conducted general data analysis in preparation for a meeting to discuss prioritized bacteria monitoring in August.</i>
5A	Preparation meeting for Basin Highlights Report	12/15/17	11/6/17	This meeting was not required but Clean Rivers Program staff met with TCEQ PM on 11/6/2017 at the Annual SWQM Conference to discuss the outline for the upcoming 2018 Basin Highlights Report (BHR).

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		12/15/18	11/14/18	H-GAC staff met with Michael Vetter, Forecasting Group, to discuss layout of 2019 BHR and develop a timeline for in-house deliverables. CRP staff sent an outline and description of the web-based Story Map web application for TCEQ to review. H-GAC staff also met with TCEQ PM at the Annual SWQM Conference near Hunt, TX, to discuss the outline for the upcoming 2019 Basin Highlights Report (BHR) and other concerns.
5A	Draft 2018 Basin Highlights Report – Watershed Characterizations	2/15/18	2/15/18 Due Date Extended to 2/22/18	Draft text, tables, graphs, and pictures were submitted to TCEQ in WORD format for review and track change comments. Extensive data analysis was conducted by Hoffman and Ranatunga conducted extensive analysis on land cover data and change in land cover data.
5A	Draft 2019 Basin Highlights Report (BHR) – Standard	2/15/19	2/15/19	Begley submitted the text for the 2019 BHR, along with frog chart and outreach section to TCEQ for review on 1/15. Comments were returned on 1/30. H-GAC addressed comments in the text and sent materials to Forecasting Group for Vetter to upload in the storyboard application. Full report due to TCEQ on or before 4/1 for accessible review.
5B	FINAL 2018 Basin Highlights Report – Watershed Characterizations	5/15/18 6/30/18	6/14/18	Received final comments back from TCEQ in May. There were enough edits needed/recommended that some major section re-writes were necessary. Couple with that were the challenges of getting the report web application working correctly. As a result, H-GAC requested a long enough extension to allow for a TCEQ review of the web application before it is launched to the public. Once TCEQ approves the report in the web application, screen shots of the report will be provided to TCEQ as hard-copy documentation of the deliverable.
		6/30/18 7/6/18	7/6/18	The web-based report was ‘launched’ to the public on 6/30/18. A hard copy print-out was made of all the screen shots to provide TCEQ with a file copy of the BHR.

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5B	FINAL 2019 Basin Highlights Report - Standard	5/15/19	5/6/19	The final 2019 Basin Highlights Report was submitted to TCEQ on 5/6/19. Included in the submission was the interactive web application (not live to the public), a PDF version of the final text included in the web application, a WORD version of the final text that addresses the response to the last few reviews, and PDF versions of the 2019 Water Quality Summary Chart (Frog Chart), the accessibility version of the report text and the accessibility version for the Frog Chart.
5C	Post 2018 Basin Highlights Report to the Web	6/30/18	6/30/18	The final web-based 2018 BHR was launched to the public on 6/30/18.
5C	Post 2019 Basin Highlights Report to the Web	6/30/19	5/23/19	The 2019 Basin Highlights Report was launched to the public on H-GAC's web site on 5/23/19.
Task 6	Stakeholder Participation and Public Outreach			
6A	Document & notify TCEQ that website meets outlined Web Site Requirements	12/15/17	12/15/17	Website meets TCEQ's website requirements with required links. Updates have been posted to the H-GAC website for the past quarter.
		12/15/18	12/15/18	Website meets TCEQ's website requirements with required links. Updates have been posted to the H-GAC website as needed.
6B	Provide summary of updates and/or copies of revised website pages in Progress Report	12/15/17	12/15/17	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • Regional FY18-19 QAPP, • Regional QAPP appendices for FY 16-17 (not previously loaded), • updated Water Resources Interactive Map (WRIM) monitoring sites, • Water Resources Publications pages.
		3/15/18	3/15/18	Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages: <ul style="list-style-type: none"> • Basin Steering Committee Roster • Water quality data accessible through the H-GAC web site

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			<ul style="list-style-type: none"> • Updated Water Resources Interactive Map (WRIM) monitoring sites,
	6/15/18	6/14/18	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p> <ul style="list-style-type: none"> • Basin Steering Committee meeting summary • Updated Water Resources Interactive Map (WRIM) Texas Stream Team html pages on 3/20/18, 4/16/18, and 5/15/18.
Provide summary of updates and/or copies of revised website pages in Progress Report	9/15/18	9/14/18	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p> <ul style="list-style-type: none"> • Posted link to 2018 Basin Highlights Report under Clean Rivers Program page followed by the open link (cover page) to the report. • Surface Water Monitoring Data page has newly uploaded data from SWQMIS. Shown by basin and by local partner. • Data on WRIM was updated. • Another link to 2018 BHR on the Water Resources Publications page.
	12/15/18	12/14/18	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p> <ul style="list-style-type: none"> • Personnel changes were made to the side-bar on the Clean Rivers Program pages. • An updated Regional Monitoring Workgroup roster was posted. • Monitoring stations and data for Texas Stream Team were updated on the WRIM.
	3/15/19	3/15/19	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p>

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			<ul style="list-style-type: none"> • Basin Steering Committee meeting announcement was added to CRP Meeting Materials page • Amendment 2 was added to QAPP page • Surface Water Monitoring Data was updated
Provide summary of updates and/or copies of revised website pages in Progress Report	6/15/19	6/14/19	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p> <ul style="list-style-type: none"> • Added Draft Scope of Work and Budget to web page • 2019 Basin Highlights Report (Interactive online format and PDF format for accessibility) • Basin Steering Committee summary packets for 3/19/19 and 5/22/19 meetings • QAPP Appendix K – Biological Monitoring by EIH • WRIM changed locations and data file changes within the WRIM application. • Coordinated Monitoring Schedule was updated on the LCRA web page.
	8/31/19	7/18/19	<p><i>Access databases on the H-GAC CRP website were updated 7/18/19.</i></p>
		8/30/19	<p>Copies of revised pages are attached to this report. Specifically, changes have been made to the following pages:</p> <ul style="list-style-type: none"> • <i>Added Final Scope of Work and Budget by Category to web page</i> • <i>The publication page for all Basin Highlights & Summary Reports was changed</i>

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6C	Contact Steering Committee Members to promote/confirm participation and review response against membership guidelines, distribute Pre Meeting Questionnaire	45 days prior to meeting	3/19/18	In late January, H-GAC began updating the BSC membership list with inquiries about continued participation on the committee. During those phone calls, members were asked for input to the meeting agenda. The first meeting announcement was sent 3/19/18. Additional meeting announcements were sent on 4/19/18, 4/23/18, and 4/30/18.
			2/7/19	In late January, the BSC membership list was updated. The draft meeting agenda was sent out announcing the meeting would be a webinar-based meeting with option to attend in person. The draft agenda and meeting announcement will be sent in next quarter with the meeting summary notes.
6D	Distribute/Post final meeting announcements and final agenda for steering committee meetings	As Needed 15 days prior to meetings	4/19/18 and 4/23/18	The final agenda was attached to the 4/19/18 meeting announcement but still included the 'draft' watermark. A corrected meeting announcement with the watermark removed was resent on 4/23/18.
			3/15/19	The second and third meeting announcement were sent via e-mail on 3/4/19 and 3/15/19.
			6/14/19	Meeting announcements were sent on 2/7, 4/29, and again on 5/14 along with the agenda.
6E	Conduct Basin Steering Committee Meetings (Before August 31, 2016)	As Needed 1 in latter half of fiscal year	5/1/18	The annual BSC meeting was conducted on Tuesday, 5/1/18, at Trini Mendenhall Community Center, Houston.
			3/19/19	This meeting was conducted as a webinar with the option to attend in person. It was a short meeting to introduce the FY20-21 Scope of Work and proposed budget, the draft 2019 Basin Highlights Report and a brief introduction to a special study being developed for the Clean Rivers Program partners.

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			5/22/19	This is the annual meeting where the final budget and finalized Scope of Work is presented to BSC members. The finalized 2019 BHR, which is on a web-based application, was presented to the committee, as well as the proposed FY2020 monitoring activities of local partners. Presentations about Texas Stream Team, the OSSF Database and the OSSF SEP program, plus the Wise Awards, and Watershed Protection Plans for the West Fork San Jacinto and Cypress Creek. Running also led a discussion about how do we start addressing the causes of bacteria and nutrient pollution while still collecting the needed water quality data for the state to develop the Texas Integrated Report every two years.
6F	Steering Committee Meeting materials	As Needed, with PR	5/11/18	The BSC meeting summary packet was assembled and finished within two weeks of the meeting. See attachment.
			6/14/19	The BSC meeting summary packet for the 3/19 meeting was assembled and finished within two weeks of the meeting. The Summary Packet is attached. The BSC meeting summary packet for the 5/22 meeting was assembled and finished within two weeks of the meeting. The Summary Packet is attached.
6G	Steering Committee Summary posted to web	45-60 days after meeting	6/12/18	The meeting summary was posted to H-GAC's web pages 6/12/18.
			4/3/19	The meeting summary was posted to H-GAC's web pages 4/3/19.
			6/5/19	The meeting summary was posted to H-GAC's web pages 6/5/19.
6H	Materials from education and outreach activities including description of & materials from.	12/15/17	12/15/17	MEETING AGENDAS & EVENT FLYERS ATTACHED TO THIS REPORT. 9/26/17 – Janhsen facilitated the Clean Water Initiative Workshop . Topic of workshop was using watershed-based plans to improve water quality. Johnston presented about ongoing TMDL and WPP projects at H-GAC. Begley presented about a new coastal communities' water quality outreach and education grant program. Registration was 37 and 22 attended. 10/03/17 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee meeting.

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			<p>10/05/17 – Begley attended the CITCO Employee Volunteer Fair. Booth included information on Texas Stream Team Volunteer Monitoring Program, Water Resources Information Map, and River, Lakes, Bays ‘N Bayous Trash Bash.</p> <p>10/12/17 – Janhsen attended the Trash Summit 2017 half-day workshop on behalf of CRP.</p> <p>10/18/17 - Running attended the Galveston Bay Council meeting to participate in lightning talks about Hurricane Harvey.</p> <p>10/19/17 – Begley, Bower, Janhsen, Johnston, Merrell, Running, and Wright attended the full-day Bayou Preservation Symposium. H-GAC sponsored an educational exhibit booth containing information about the Clean Rivers program, Texas Stream Team, Trash Bash, and water quality projects that use CRP monitoring.</p> <p>10/24/17 – Janhsen facilitated the Clean Water Initiative Workshop. Topic of workshop was better public engagement practices. Registration was 48 and 24 attended.</p> <p>11/07/17 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee meeting.</p> <p>11/28/17 - Janhsen facilitated the Clean Water Initiative Workshop. Topic of workshop was freshwater inflows. Registration was 59 and 40 attended.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <ul style="list-style-type: none"> • 10/12/17 – Fields and Merrell attended the Carnegie Vanguard HS Student Environmental Fair. CRP manned two tables, one about Texas

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				<p>Stream Team and one about general storm water protection strategies for residents at home using the LID interactive game.</p> <ul style="list-style-type: none"> • 10/21/17 – A Texas Stream Team Phase I and II training was held in The Woodlands Township. 30 trainees attended and a high school class observed. • 11/8/17 – Begley published the Texas Stream Team quarterly newsletter for Nov 2017-January 2018. The newsletter goes to approximately 400 subscribers. The open rate for the newsletter was 40 percent with the most click-throughs to the H-GAC Stream Team web page. • 11/8/17 – Merrell attended a Carnegie-Vanguard HS Student Environmental Field Trip. With assistance from active Texas Stream Team volunteer monitors, 50 students received an overview of all the monitoring parameters of the Stream Team program in two 1.5-hour session. • 11/10/17 – Merrell conducted a Texas Stream Team Phase III training at Woodson’s Gully in Montgomery County. • 11/27/17 - Merrell conducted a Texas Stream Team Phase III training at Sims Bayou in Harris County. • 11/28/17 – Merrell and Fields attended a Carnegie-Vanguard HS Student Environmental Field Trip. With assistance from active Texas Stream Team volunteer monitors, 50 students received an overview of all the monitoring parameters of the Stream Team program in two 1.5-hour session.
6H	Materials from education and outreach activities including description of & materials from. (continued)	3/15/18	3/15/18	MEETING AGENDAS & EVENT FLYERS ATTACHED TO THIS REPORT.

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				<ul style="list-style-type: none"> • 01/09/18 – Staff manned a table at the H-GAC Employee Health and Wellness Fair. Theme of educational materials was how to reduce water pollution with easy behavior changes at home. • 01/10/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays ‘N Bayous Trash Bash. • 01/10 – 01/31/18 – Begley participated in a series of seven action plan goal setting conference calls for the regional Marine Debris Reduction Action Plan (www.donttrashagoodthing.org). • 01/31/18 – Begley attended the North Houston Association Meeting. Networked with Greens Bayou Coalition about Texas Stream Team and Trash Bash participation. • 1/31/18 – Running attended the Galveston Bay Council meeting as the representative for Jeff Taebel who is a voting member of the council. • 02/06/18 – Stormwater quality brochure (250) and Trash Bash brochure (100) provided for Friends of the River San Bernard school outreach program. • 02/10/18 – Outreach display materials borrowed for Houston ISD school fair event. Provided 50 Trash Bash brochures, 50 stormwater quality brochures, and 25 pet waste bag dispensers. • 02/14/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays ‘N Bayous Trash Bash.

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				<ul style="list-style-type: none"> • 02/19/18 – Provided 26 pet waste bag dispensers, 26 pet waste brochures, and 1,260 pet waste bag refill rolls for a Girl Scout Silver Award project with the Citizens for Animal Protection program. • 02/27/18 – Begley participated in a planning session with the regional Marine Debris Reduction Action Plan steering committee to consider next steps in finishing the plan and the next summit meeting. • 02/28/18 – Begley presented on the River, Lakes, Bays ‘N Bayous Trash Bash at the H-GAC Agency Staff Meeting. • 02/28/18 – Wright attended the Galveston County Post-Harvey Community Open House representing the Clean Rivers Program. <p><u>Texas Stream Team outreach activities included:</u></p> <ul style="list-style-type: none"> • 02/16/18- Begley and Fields taught a Texas Stream Team Phase I and II training in Lake Jackson. There were 11 trainees and 1 trainer-in-training in attendance.
6H	Materials from education and outreach activities including description of & materials from. (continued)	6/15/18	6/14/18	<p>Meeting Agendas & Event Flyers are attached to this report.</p> <p>Begley and Fields prepared, conducted training, and distributed supplies and material for watershed education. Those Education and Outreach materials were borrowed for use by 10 organizations during the quarter; Citizens for Animal Protection (CAP), Bayou Preservation Association, Galveston Bay Foundation, Galveston Bay Estuary Program, Student Conservation Association, Sam Houston Council of Boy Scouts, Girl Scouts of San Jacinto, University of Houston-Downtown, Greater Northside Management District, KPFT 90.1FM.</p> <p>Outreach materials trainings were held for the Student Conservation Association, Bayou Preservation Association, and Trash Bash site coordinators.</p>

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			<p>03/01/18 – Running attended the North Houston Association meeting and gave an update on ambient monitoring in the area.</p> <p>03/03/18 – Begley and Merrell attended Nature Fest at Jesse H. Jones Park & Nature Center. The exhibit focused on common causes of water pollution, using the Common Causes Quiz Poster and the LID stormwater exhibit. Materials distributed included Trash Bash brochures, stormwater quality brochures, LID brochures, West Fork WPP flyer, 2017 BHR flyer, pet waste bag dispensers. Displays included a poster quiz about the common causes of water pollution, What Watershed Do You Live In map, and the pledges for Pet Waste, FOG, and LID. H-GAC’s booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection.</p> <p>03/05/18 – Running attended the Galveston Bay Plan Update Open House in LaMarque. He was representing H-GAC to answer any questions about CRP monitoring in the Galveston Bay watershed.</p> <p>03/08/18-Running and Begley attended the Southeast and South-Central Texas Regional Watershed Coordination Steering Committee Meeting to participation in a group discussion on addressing pollution from trash and littering.</p> <p>03/08/18 – Running and Begley attended the Lower Colorado River Authority Water Quality Steering Committee Meeting to observe and discuss common issues.</p> <p>03/09/18 – Janhsen and Running attended the H-GAC Board of Directors Annual Dinner to man an exhibit on the River, Lakes, Bays ‘N Bayous Trash Bash 25th anniversary.</p> <p>03/09/18 – Tantillo presented on proper pet waste disposal to the Boeing</p>

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			<p>Toastmasters Club #4908, including a “pitch the poop” interactive display. Attendees with dogs were given pet waste bag dispensers and bookmarks.</p> <p>03/14/18 – Begley facilitated a steering committee planning meeting for the River, Lakes, Bays ‘N Bayous Trash Bash.</p> <p>03/24/18 – Begley, Running, Bower, Wright, Johnston, and Fields participated in the River, Lakes, Bays ‘N Bayous Trash Bash. 3,591 volunteers picked up 85.5 tons of trash, .94 tons of recycling, and 356 tires while cleaning 158.5 miles of shoreline. All 14 sites had educational exhibit areas that focused on reducing bacteria through proper pet waste disposal, proper handling of fats, oils, grease, preventing runoff pollution from your property, and sorting trash for a zero-waste experience.</p> <p>03/28/18 – A Clean Waters Initiative workshop was held at H-GAC with CRP staff in attendance. The topic was Transportation Projects and Water Quality.</p> <p>04/03/18 – Begley attended the Bayou Preservation Association Nonpoint Source Pollution Prevention Committee (BPANPSPPC) meeting. Trash was the main topic. Begley presented preliminary Trash Bash results.</p> <p>04/14/18 – Wright and Running attended the Sam Houston Area Council Boy Scout Fair at NRG Arena. The exhibit focused on common causes of water pollution, using the LID stormwater exhibit and pledge. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. Displays included a What Watershed Do You Live In map where visitors pinned their watershed. H-GAC’s booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection. Additional educational materials were loaned to the Galveston Bay Estuary Program for this event.</p> <p>04/14/18 – Bower attended the Baytown Nature Center Nurture Nature</p>

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			<p>Festival. The exhibit focused on common causes of bacteria in water, using the Pitch the Poop materials. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. watershed. Other items of discussion included OSSF SEP funds, WPPs, FOG issues in Baytown, general water quality, and NRCS/SWCD-TSSWCB landowner programs. Additional educational materials were loaned to the Galveston Bay Estuary Program for this event.</p> <p>04/21/18 – Wright and Johnston attended the Galveston Bay Foundation Bay Day Festival in Kemah. The exhibit focused on common causes of water pollution, using the LID stormwater exhibit and pledge. Materials distributed included Trash Bash brochures, stormwater quality brochures, and pet waste bag dispensers. Displays included a ‘What Watershed Do You Live In?’ map where visitors pinned their watershed. H-GAC’s booth was part of a Bingo game. Kids had to earn their stickers by answering a question from the stormwater quiz card collection. Educational materials were also loaned to the Galveston Bay Estuary Program and KPFT Radio for this event.</p> <p>04/25/18 – Sent 100 pet waste bag dispensers to the Pearland RV Park used for Hurricane Harvey temporary housing in Pearland. The park is located very close to Mustang Bayou.</p> <p>04/25/18 – Begley presented on regional litter projects (Trash Bash, Trash Summit, Trash Free Waters Adopt-a-Spot, BPANPSPPC End of Parade) at the H-GAC Solid Waste Management Committee meeting.</p> <p>05/01/18 – Running, Bower, Johnston, Janhsen, Merrell, and Begley presented project updates at the CRP Steering Committee Annual Meeting. Wright facilitated the meeting. The meeting was also attended by Hoffman and Sims.</p> <p>05/02/18 – The quarterly Texas Stream Team Newsletter was distributed via email to 773 recipients.</p>

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			<p>05/02/18 – Begley participated in a Trash Summit Conference Call on 5/9/18.</p> <p>05/05/18 – Merrell taught and Bower attended an OSSF Homeowner Education Workshop in Mont Belvieu. Two residents attended the workshop.</p> <p>05/09/18 – Begley attended the third regional Trash Summit as a facilitator and presenter. The purpose of the meeting was to get consensus on the goals and strategies of the draft Marine Debris Aquatic Trash Action Plan and consider next steps.</p> <p>05/15/18 – Begley, Fields, and Running attended the Trash Bash Appreciation Luncheon, celebrating 25 years of events and the 2018 TEEA award in the civic/community category.</p> <p>05/15/18 – Begley and Running presented on water quality programs, including CRP, at the Danbury City Council meeting.</p> <p>05/16/18 – A Clean Waters Initiative workshop was held at H-GAC with CRP staff in attendance. The topic was MS4 BMPS and Minimum Control Measures.</p> <p>05/19/18 – Merrell taught and Begley attended an OSSF Homeowner Education Workshop in Bayou Vista. Seven residents attended the workshop.</p> <p>05/21/18 – Bower attended a Harris County Precinct 1 Parks planning meeting to discuss adding water quality amenities to the park to improve the quality of adjacent water bodies.</p> <p>05/24/18 – Begley presented on water quality programs, including CRP, at the Double Bayou WPP annual stakeholder meeting.</p>

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				<p>05/29/18 – Begley participated in a post-summit wrap-up and next steps conference call for Trash Summit.</p> <p>05/30/18 – Wright attended the Galveston County Coalition of Watersheds meeting.</p> <p>05/30/18 – Running attended a meeting about PCBs/Dioxins at the University of Houston.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <ul style="list-style-type: none"> • 05/04/18 – Merrell and Begley taught and Sims attended a Texas Stream Team Phase I/II training at the Buffalo Bayou Partnership. Nine volunteer monitors completed both phases.
6H	Materials from education and outreach activities including description of & materials from. (continued)	9/15/18	9/14/18	<p>Meeting Agendas, Event Flyers, & Newsletter are attached.</p> <p>06/02/18 – A silver award Girl Scout candidate (Charlotte Charlton) used the ‘Pitch the Poop’ interactive game and posters and distributed pet waste bag dispensers at a Citizens for Animal Protection event.</p> <p>06/06/18 – Running, Wright, Hoffman, and Begley attended the state-wide CRP meeting in Seguin. Running and Begley presented on H-GAC’s public engagement efforts. Wright had to drive to west side of Houston to meet up with carpooling group to travel to Seguin, TX.</p> <p>06/07/18 – Sims attended the GBEP Water & Sediment Quality Sub-committee meeting.</p> <p>06/08/18 – Begley and Fields attended World Oceans Day event in Galveston, sponsored by Artist Boat. Materials used focused on proper disposal of fats, oils, and grease. Ancillary materials focused on pet waste disposal.</p>

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			<p>Approximately 400 people attended the event. Distributed pet waste bag dispensers, fat funnels, and pan scrapers.</p> <p>06/11/18 – Begley and Johnston attended the Bayou Preservation Association Watershed Meeting to discuss bacteria in area bayous and outreach opportunities related to bacteria. Distributed pet waste bag dispensers, fat funnels, and pan scrapers.</p> <p>06/12/18 – Wright facilitated the CRP Regional Monitoring Workgroup Meeting. Running, Hoffman, and Merrell attended.</p> <p>06/15/18 – Running distributed pet waste bag dispensers for the water quality curriculum unit at the University of Houston Engineering Camp.</p> <p>06/19/18 – Johnston and Begley attended the City of Holiday Lakes city council meeting to discuss water quality projects and programs, including the Clean Rivers Program, for the Brazoria County region.</p> <p>06/23/18 – Citizens for Animal Protection used the Pitch the Poop interactive game and posters and distributed pet waste bag dispensers at their booth at the 2018 Houston Pride Festival.</p> <p>06/23/18 – Begley attended the Brazoria County Hurricane Preparedness Expo. Materials used focused on stormwater prevention pollution, using the LID demonstration and FOG disposal. The EPA After the Storm, H-GAC Separating Debris, and H-GAC general stormwater brochures were distributed, along with pet waste bag dispensers, fat scrapers, and fat funnels.</p> <p>07/18/18 – Begley attended the Schlumberger Health, Safety, and Environment Day at the Houston Ardmore Facility. Materials focused on volunteer activities with Trash Bash and Texas Stream Team, as well as behavior changes focused on reducing bacteria levels in waterway by picking</p>

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				<p>up pet waste and proper disposal of fats, oils, and grease.</p> <p>07/18/18 – Running attended the Galveston Bay Council meeting at the Harris Galveston Subsidence District office.</p> <p>08/23/18 – Begley, Wright, Running, Janhsen, and Johnston attended the Coastal Communities Outreach Open House in Alvin. General stormwater pollution prevention information was disseminated, including the stormwater quality brochure, Trash Bash materials, and pet waste bag dispensers.</p> <p><u>Texas Stream Team outreach activities included:</u> 07/10/18 – Phase III certifications were completed by Pete and Peggy Romfh for two monitors for two Brazoria County sites in Bastrop Bayou.</p> <p>07/28/18 – Begley did a “trainer” certification for Texas Stream Team and a Phase III certification.</p> <p>08/08/18 – Begley published the Texas Stream Team Newsletter. It was sent via email to 389 and opened by 141. It is also posted to the H-GAC website.</p> <p>08/12/18 – Phase III certifications were completed by Steve and Lisa Murray for two monitors for two Panther Branch sites.</p>
6H	Materials from education and outreach activities including description of & materials from. (continued)	12/15/18	12/14/18	<p>Meeting Agendas, Event Flyers, & Newsletter are attached.</p> <p>09/06/18 - Running attended the North Houston Association Environment Committee Meeting.</p> <p>09/11/18 – Running attended the Public Participation and Education Subcommittee Meeting at GBEP.</p>

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			<p>09/11/18 – Begley presented an overview of H-GAC water quality programs, including CRP, at Olin Corporation Giving Ambassador training. H-GAC is a giving partner option for 2018.</p> <p>09/11/18 – Wright hosted, and Casillas and Hoffman attended the H-GAC Clean Rivers Program Regional Monitoring Workgroup Meeting.</p> <p>09/17/18 – Begley presented an overview of H-GAC water quality programs, including CRP, at Olin Corporation Giving Ambassador training. H-GAC is a giving partner option for 2018.</p> <p>10/02/18 – Begley attended the Bayou Preservation Association Trash Free Bayous committee meeting.</p> <p>10/03/18 – Running presented on Total Maximum Daily Loads & Implementation Plans for both East & West forks of the San Jacinto River and the Houston Ship Channel and Galveston Bay at the North Houston Association Environment Committee Meeting.</p> <p>10/4/18 - Running attended the North Houston Association Environment Committee Meeting. He presented on the topic: Total Maximum Daily Loads & Implementation Plan for both East and West Forks of the San Jacinto River and the Houston Ship Channel and Galveston Bay. CRP data was used for this presentation.</p> <p>10/10/11 – (also 10/11/18) Johnston, Bower, and Running attended the TCEQ Autumn Environmental Conference and Expo combines the former Advanced Air Permitting and Water Quality/Stormwater Seminars and includes a one-day Waste Classification Workshop. This event provides engineers, environmental managers, consultants, and the regulated community updates on permitting rules, requirements, issues, and regulations.</p>

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			<p>10/12/18 – H-GAC (represented by Begley), in partnership with Olin Corporation and Brazoria County Parks, sponsored a jetty cleanup at Surfside Jetty Park. Cleanup participants received brochures and best management practices items to reduce bacteria in waterways (pet waste bag dispensers and FOG funnels and scrapers).</p> <p>10/17/18 – Running attended the Galveston Bay Council meeting at the Harris-Galveston Subsidence District Office located in the Clear Lake area.</p> <p>10/18/18 – Casillas, Guidroz, Running, Bower, Sims, and Taebel attended the Bayou Preservation Symposium. H-GAC had a display table containing information on all our water quality projects and programs that use CRP data; BHR 2018, Trash Bash, TST, OSSF SEP, Water Quality brochure, WPPs, TMDL projects. Taebel participated in a panel discussion (Development in the Post Harvey World - Continuing the Discussion).</p> <p>10/23/18 – Running, Wright, Hoffman, Sims, Begley, Janhsen, Casillas, Guidroz, Bower attended the Bacteria Implementation Group Fall Meeting. Updates on projects were presented by staff.</p> <p>10/24/18 – H-GAC hosted the Clean Waters Initiative workshop – Resiliency and Recovery Following Harvey. Speakers were Jen Powis with CEER and Alan Black with Harris County Flood Control Districts. Workshop was attended by Sims, Casillas and Guidroz.</p> <p>11/01/18 – Johnston, Running, and Begley discussed the use of CRP data in the preparation of a technical support document at a stakeholder meeting for the Caney Creek Bacteria Reduction project in Basin 13.</p> <p>11/7/18 – Begley and Janhsen facilitated and Johnston and Sims attended the Coastal Communities Water Quality Workgroup meeting. The meeting was to set the vision and goals for a regional outreach coordination project to</p>

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			<p>promote bacteria reduction in the four coastal counties.</p> <p>11/08/18 – Johnston and Begley discussed the use of CRP data in the preparation of a technical support document at a stakeholder meeting for the Oyster Creek Bacteria Reduction project in Basin 11.</p> <p>11/12/18 – 11/14/18 – Casillas, Guidroz, and Wright attended the 32nd annual SWQM Workshop in Hunt, TX.</p> <p>11/13/18 – Begley attended the City of Houston Keep Houston Beautiful Mayors Proud Partner Awards breakfast to receive an MPP Award for the River, Lakes, Bays ‘N Bayous Trash Bash. Begley also served as a judge for this year’s awards.</p> <p>11/14/18 – Begley attended the Galveston Bay Foundation Boater Waste Workgroup meeting. CRP data will be used to help build a Galveston Bay Foundation application to the EPA to make the entire Galveston Bay a no dumping zone for boater waste.</p> <p>11/16/18 – Guidroz was completing her field training to become a Stream Team Trainer for future classes. She was taken to four different monitoring sites to observe Phase III training events.</p> <p>11/28/18 - Running attended the North Houston Association Environment Committee Meeting.</p> <p>11/29/18 – Bower substituted for Johnston, speaking to the water quality parameters in these two related systems that do not currently meet water quality standards set by the Texas Commission on Environmental Quality at the Going Green Lecture Series 2018 in The Woodlands. He will also explore possible causes for the impairments. Projects, practices, and opportunities that can be taken on at the local residential and community level to improve water quality</p>

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				<p>will be highlighted.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <p>09/04/17 – Texas Stream Team Phase III certification was completed by Steve and Lisa Murray for a monitor on Bear Branch in the Woodlands.</p> <p>09/14/17 – Texas Stream Team Phase III certification was completed by Pete and Peggy Romfh for a monitor on the West Bernard River.</p> <p>11/7/18 – Volume 2018 Issue 4 of the H-GAC Texas Stream Team newsletter was published and distributed electronically to 462 recipients. The open rate was 30.2 percent, with ¾ opening it on a computer and 24% on a mobile device.</p> <p>11/14/18 – H-GAC’s Texas Stream Team program was honored with the Most Supportive Partner award by the state coordinator, The Meadows Center for Water & the Environment at the 2018 Stream Team Fest.</p> <p>11/19/18 – Begley conducted Texas Stream Team training Phase 1, 11, and 111 at Milby Park off Sims Bayou in southeast Houston.</p>
6H	Materials from education and outreach activities including description of & materials from. (continued)	3/15/19	3/15/19	<p>12/6/18 – Bower attended the GBEP Water and Sediment Quality Subcommittee meeting. Current project updates were given at the meeting, including a brief update on CRP activities.</p> <p>12/11/18 – Wright facilitated the CRP Regional Monitoring Workgroup Meeting. Sims, Casillas and Guidroz attended.</p> <p>12/12/18 – Wright attended the GBEP Monitoring and Research Subcommittee meeting. Current project updates were given at the meeting, including a brief update on CRP activities.</p>

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				<p>1/8/19 – Janhsen and Begley attended the GBEP Public Participation and Education Subcommittee meeting. Current project updates were given at the meeting, including a brief update on CRP activities.</p> <p>1/18/19 – Bower and Begley had a table at the H-GAC Board of Directors Annual Dinner. The focus of the table was H-GAC water quality programs including CRP.</p> <p>1/29/19 – Johnston and Begley facilitated a stakeholder meeting for the Oyster Creek Bacteria Reduction Project in Basin 11. CRP monitoring and data were discussed.</p> <p>2/7/19 – Begley and Guidroz presented numerous Freddie the Fish Workshops to all 4th grade students at Anahuac Elementary School. The presentation included discussions about surface water quality, stormwater, and nonpoint source pollution.</p> <p>2/7/19 – Janhsen facilitated and Sims, Johnston, Bower, Running and Begley attended the quarterly Natural Resources Advisory Committee meeting. Water quality project updates were provided, and upcoming meetings were announced including the CRP Basin Steering Committee meetings in March and May.</p> <p>2/15/19 – Running traveled to East Bernard, TX, to investigate monitoring site locations.</p> <p>2/20/19 – Begley facilitated and Guidroz attended the Coastal Communities Water Quality Workgroup meeting. The meeting was to finalize the vision and goals for a regional outreach coordination project to promote bacteria reduction in the four coastal counties and plan upcoming outreach.</p>

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				<p>2/21/2019 – Johnston and Janhsen facilitated a stakeholder meeting for the Caney Creek and Linnville Bayou Bacteria Reduction Project in Basin 13. CRP information was shared with attendees.</p> <p>2/26/2019 – Sims facilitated and Begley, Casillas and Guidroz attended the Clean Waters Initiative workshop on funding sources for water and wastewater infrastructure.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <p>2/7/2019 – The quarterly H-GAC Texas Stream Team Newsletter was distributed by email to 340 recipients with a 39% open rate.</p>
6H	Materials from education and outreach activities including description of & materials from. (continued)	6/15/19	6/14/19	<p>Meeting Agendas, Event Flyers, & Newsletter are attached.</p> <p>03/02/19 – Begley, Bower, Casillas and Guidroz attended the 15th annual Nature Fest at Jesse H. Jones Park. The exhibit focused on common causes for water pollution utilizing the LID stormwater exhibit and displays on watersheds and ways to reduce stormwater pollution.</p> <p>03/09/19 – Begley traveled to Pearland to train members of a Girl Scout Troop to conduct public outreach education using the tools provided by H-GAC.</p> <p>03/18/19 thru 03/21/19 – Casillas and Guidroz attended SWQM training conducted by EIH at the UHCL campus.</p> <p>03/19/19 – Wright and Running facilitated the Basin Steering Committee meeting for H-GAC’s Clean Rivers Program.</p> <p>03/30/19 - Wright, Casillas, Guidroz, and Begley facilitated stormwater pollution education at various Trash Bash sites in Harris and Brazoria counties.</p>

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				<p>04/03/19 – Janhsen joined Toastmasters to improve her public speaking skills and to become a better communicator. She has given in the past and will give presentations again in the future for CRP and other water related programs.</p> <p>04/04/19 – Guidroz and Begley attended the Public Participation and Education Subcommittee meeting at the Galveston Bay Estuary Program.</p> <p>04/06/19 – Running, Johnston, and Begley attended the 2019 Scout Fair and promoted stormwater pollution prevention, specifically reducing bacteria input from pet waste. The fair was held at NRG stadium in Houston.</p> <p>04/12/19 – Running, Begley, and Guidroz met with Brazosport College in Lake Jackson to discussion adding Texas Stream Team classes to the college’s continuing education program.</p> <p>04/17/19 – Running attended the Galveston Bay Council Meeting in the Clear Lake/Friendswood area.</p> <p>04/23/19 – Begley attended the Bayou Preservation Association Board of Directors Meeting. Topics included the addition of waterways to the Trash Free Texas adopt-a-spot program, Texas Stream Team trainings, and Trash Bash.</p> <p>04/23/19 – Wright, Hoffman, Casillas, Guidroz, and Running participated in the annual CRP Coordinated Monitoring Meeting at H-GAC.</p> <p>04/27/19 – Running, Casillas, Bower and Sims provided an outreach booth at the Nature 4 Health event at Kickerillo-Mischer Preserve. Topics included watersheds, low-impact development and pet waste as a bacteria source.</p> <p>04/27/19 – Begley and Johnston provided an outreach booth at the Pearland Earth Day event. Topics included pet waste as a source of bacteria, and pet</p>

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			<p>waste bags and dispensers were distributed to the public.</p> <p>05/02/19 – Janhsen facilitated, and Bower and Begley presented at the Natural Resources Advisory Committee Meeting. Water quality was identified as a 2019 focus issue for NRAC.</p> <p>05/07/19 – Begley and Guidroz attended the Houston -Galveston Regional Trash and Marine Debris Summit meeting. Topics included regional outreach strategies and potential use of Texas Stream Team volunteers.</p> <p>05/18/19 – Guidroz, Johnston, and Wright provided an outreach booth at the Bay Day Festival at Kemah Boardwalk. Topics included sources of bacteria such as pet waste and FOG.</p> <p>05/22/19 – Wright, Running, Sims, Bower, and Guidroz presented at the Clean Rivers Program Basin Steering Committee Meeting, and Casillas, Hoffman, and Janhsen attended.</p> <p>05/22/19 – Sims facilitated the Clean Waters Initiative at H-GAC. The topic this quarter was On-Site Sewage Facility Remediation Projects.</p> <p><u>Texas Stream Team outreach activities included:</u></p> <p>03/05/19 - Guidroz conducted a Texas Stream Team Phase III training at Jesse H. Jones Park.</p> <p>03/07/19 – Guidroz conducted a Texas Stream Team Phase III training at Lake Houston site.</p> <p>03/30/19 - Guidroz conducted a Texas Stream Team Phase III training at Sheldon Lake.</p>

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			<p>04/03/19 – Guidroz participated in a Texas Stream Team Partners Webinar. Topics included Meadows Center updates, new training protocols, and a research study to determine comparability between volunteer and professional water quality data.</p> <p>05/07/19 – The H-GAC Texas Stream Team Quarterly Newsletter was sent out to 316 recipients and posted on the H-GAC website. The Newsletter was opened by 120 recipients, or approximately 40 percent.</p> <p>05/24/19 – Guidroz conducted 2 Texas Stream Team Phase III trainings, one in Pearland and one on Upper Oyster Creek.</p>
		8/30/19	<p><i>MEETING AGENDAS & EVENT FLYERS ATTACHED TO THIS REPORT.</i></p> <p>06/04/19 – Running, Wright, and Hoffman participated in the CRP Quality Assurance Conference Call. TCEQ discussed the FY20-21 QAPP, the QAPP amendment SHELL, and audits of sub-participants.</p> <p>06/04/19 – Johnston facilitated and Guidroz, Running, Bower, Casillas, Hoffman, and Janhsen attended the Bacteria Implementation Group (BIG) Spring Meeting at H-GAC. Topics included updates on upcoming TMDL projects on AUs with H-GAC monitoring sites.</p> <p>06/06/19 – Running attended the North Houston Association meeting where he gives an update on CRP and other water quality projects that affect the area.</p> <p>06/11/19 – Wright facilitated and Guidroz and Casillas attended the Clean Rivers Program Regional Monitoring Workgroup Meeting at H-GAC.</p> <p>06/19/19 – Janhsen attended the Public Participation & Education (PPE) sub-committee meeting in the GBEP office.</p>

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			<p><i>08/01/19 – Janhsen facilitated and Running, Bower, Sims, Johnston, Begley, Guidroz, and Casillas attended the Natural Resources Advisory Committee Meeting at H-GAC.</i></p> <p><i>08/08/19 – Sims facilitated, and Running and Casillas attended, the Clean Waters Initiative field trip at the North Harris County Regional Water Authority.</i></p> <p><i>08/14/19 – Wright attended the GBEP Regional Monitoring Database Workgroup meeting at Armand Bayou Nature Center.</i></p> <p><i>08/29/19 – Wright attended the Galveston Bay Foundation’s Boater Waste Workgroup Meeting at the Galveston Bay Foundation to get updates on their public outreach efforts and discuss ways to increase visibility around the bay and watershed.</i></p> <p><u>Texas Stream Team outreach activities included:</u></p> <p><i>04/25/19 – Hoffman traveled to the Galveston Bay Foundation office to assist with Texas Stream Team database issues.</i></p> <p><i>06/12/19 - Guidroz conducted a Texas Stream Team Phase III training at Buffalo Bayou at Waugh Bridge.</i></p> <p><i>06/29/19– Guidroz conducted a Texas Stream Team Phase I and II training in the Woodlands.</i></p> <p><i>07/30/19 – Guidroz conducted Texas Stream Team Phase III training at Pundt Park in north Harris County.</i></p> <p><i>08/06/19 – Guidroz and Running attended the Bayou Preservation Association Citizen Science Meeting to discuss their local Texas Stream Team group and</i></p>

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				<i>upcoming targeted monitoring projects.</i> <i>08/07/19 – Guidroz sent out the quarterly H-GAC Texas Stream Team newsletter.</i> <i>08/08/19 – Guidroz conducted two Texas Stream Team Phase III trainings in the Woodlands</i>
Task 7	Special Projects (N/A)	N/A	N/A	N/A