

SOUTH JERSEY TRANSPORTATION PLANNING ORGANIZATION

ITEM 1907-21: Approving the Selection of AECOM Technical Services, Inc., as the Consultant for the FY 2020 Air Quality Assistance Technical Study

PROPOSAL

At its July 8, 2019, meeting, the Technical Advisory Committee recommended that the Policy Board approve the selection of AECOM Technical Services, Inc., (AECOM) in association with Michael Baker International, WSP Parsons Brinckerhoff, and Sobers Consulting LLC (DBE firm) for the SJTPO FY 2020 Air Quality Assistance Technical Study.

BACKGROUND

The RFP for this project was issued on May 21, 2019 with proposals due on June 18th. With the request, SJTPO was seeking qualified firm(s) to provide consultant support for the following air quality analysis activities:

1. Regional Emissions Analysis for the 2050 RTP and FY 2020-2029 TIP
2. Assistance with the Preparation of SJTPO portion of statewide emission inventories for NJDEP

The Notice of Availability of Requests was sent to approximately 227 firms. One (1) proposal was received from AECOM Technical Services, with Michael Baker International, WSP Parsons Brinckerhoff (WSP) and Sobers Consulting LLC as the DBE. The proposal was reviewed and scored by the TAC-designated Consultant Selection Committee with representatives from the New Jersey Department of Environmental Protection, Atlantic County, Cross County Connection TMA, and SJTPO. The Selection Committee agreed that AECOM was highly qualified to complete the air quality analysis for this technical effort.

While the initial cost was \$49,950, after some negotiation and modifications to the scope, the final cost was \$39,995 with 12.53% DBE participation.

This project is funded out of Task 20-401: FY 2020 Air Quality Technical Assistance, which is funded in the amount of \$39,999.

BACKGROUND

The transportation system in Atlantic, Cape May, Cumberland, and Salem Counties is vital to the economic health of the region. To maintain this health, people and goods must be able to move throughout the region efficiently. As the regional Metropolitan Planning Organization, the SJTPO is responsible for helping to maintain the success of the transportation system in southern New Jersey while maintaining conformance with National Ambient Air Quality Standards (NAAQS) as promulgated by the Clean Air Act Amendments of 1990 and ensuing legislation and regulations. This project will demonstrate the compliance of the SJTPO with the Air Quality Conformity regulations and support for the upcoming 2050 Regional Transportation Plan (RTP) and the FY 2020-2029 Transportation Improvement Program (TIP). 2050 RTP is an update for Transportation Matters: A Plan for South Jersey completed in 2017 (SJTPO's current RTP) with the framework and strategies for the integrated transportation system and efficient movement of people and goods from horizon year of 2040.

SJTPO also provides technical assistance to the New Jersey Department of Environmental Protection (NJDEP) in analyzing emissions for State Implementation Plan (SIP) by creating regional transportation activity inputs into the statewide emissions inventory. This project will help SJTPO to conduct technical analysis and develop air quality data necessary for New Jersey on-road mobile source ozone emission inventory (SJTPO portion) as well as to provide input data to NJDEP.

The AECOM team previously assisted SJTPO and NJDEP in multiple rounds of air quality conformity, developing the Motor Vehicle Emission Simulator (MOVES) inputs, and calculating regional emissions for New Jersey statewide SIP. We will use our extensive experience to conduct SJTPO conformity determinations and assist in air quality data development effort providing coordination with NJDOT and NJDEP.

TECHNICAL APPROACH

Several factors related to travel demand model post-processing must be accounted for while performing the regional Air Quality Conformity Analysis:

8-HOUR OZONE STANDARD

In October 2015, based on its review of the air quality criteria for ozone and related photochemical oxidants, the EPA revised the primary and secondary NAAQS for ozone to protect public health and welfare (80 FR 65292). The EPA revised the levels of both standards to 0.070 ppm, and retained their indicators, forms (fourth-highest daily maximum, averaged across three consecutive years) and averaging times (eight hours). Under the Clean Air Act, the EPA Administrator must make all attainment designations within two years after a final rule revising the NAAQS is published.

The AECOM Team brings unique skills and innovation to the project:

- Leadership role in NJDOT's Air Quality Working Group
- Leading role in on-road emission data development - SIP and NEI - in NJ and PA
- MOVES temporal files prepared by the Team accepted by USEPA as the basis for national defaults
- Responsibility for the current updates to the SJTPO regional travel model
- Direct support for NJDOT in emission related matters
- Innovative off-model travel forecasting and emission estimation methods

The SJTPO region is part of the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-Hour Ozone Nonattainment Area. It is currently classified as a Marginal Nonattainment Area. All four counties in the SJTPO region were designated non-attainment and classified as “marginal - nonattainment” for this pollutant. Because it is nonattainment, pursuant to the Clean Air Act, the State needs to prepare a State Implementation Plan (SIP) to demonstrate its plan for attaining the 8-Hour Ozone National Ambient Air Quality Standard. Although the NJDEP is the primary author of the SIP, the agency relies on MPOs (in this case, SJTPO), to derive transportation activity data from the travel demand model. The activity data is an important input to the MOVES emission model that is used to calculate on-road transportation emission quantities for the SIP.

Through the past two decades, the AECOM Team has directly supported SJTPO and the NJDEP with expert technical guidance, ensuring that air quality modeling and analysis is undertaken to meet all EPA and FHWA requirements. This work has included assistance in establishing volatile organic compound (VOC) and oxides of nitrogen (NO_x) Motor Vehicle Emission Budgets (MVEB) and support demonstrating that the SJTPO transportation Plan and its updates conform to the overall plan to reach the region’s air quality goals. AECOM has also developed custom software and post-processing packages to estimate the variety of daily and annual emissions for four counties in the SJTPO region; this process will be applied to develop input data and emission summaries for the proposed SIP.

MOVES AND PPSUITE

The AECOM Team has applied MOBILE and MOVES emission models for air quality analysis in the SJTPO region for more than a decade. Since 2013 MOVES has been used with the South Jersey Travel Demand Model (SJTDM) post-processor. Last year, AECOM both developed data for, and implemented, the latest MOVES2014b emission model to support NJDEP with 2017 NEI tasks.

AECOM and Baker have worked extensively with the evaluation of MOVES, providing feedback to NJDOT’s Air Quality Working Group with respect to data development and implementation. This working group has included NJDOT, NJDEP, SJTPO, NJTPA and DVRPC. Working group meetings have provided a useful forum for AECOM and Baker to achieve a thorough understanding of MOVES methods, data, and results. AECOM has directly supported NJDEP’s efforts to use MOVES for the most current round of SIP preparation. The lessons learned in that endeavor will help us to meet SJTPO’s needs for this project more efficiently.

PPSUITE is a travel demand model and emissions analyzer post-processing tool that links the current SJTPO travel model to MOVES. PPSUITE has been in use in New Jersey and nearly a dozen other states and jurisdictions for over 20 years and has achieved a high level of maturity and technical strength. In conjunction with this work and similar work for other states, AECOM’s PPSUITE post-processing software has been thoroughly revised, tested, and validated in its support for the MOVES software.

Through interagency coordination and subsequent coordination with the NJDEP and the EPA, AECOM has been able to obtain the emissions program descriptions appropriate for South Jersey. We anticipate repeating this process for the proposed SIP and NEI development. The AECOM Team will utilize the EPA’s latest release of MOVES2014b with the movesdb20181022 default database as the emissions forecasting program.

Together, PPSUITE and MOVES provide the most comprehensive and flexible available platform for transportation network and emissions analysis. Its use by NJDEP to analyze emissions for prior SIP revisions, and by the NJDOT and the NJTPA for their emissions modeling activities, and by neighboring states and MPOs as well (PennDOT, Lehigh Valley, PA and Baltimore MD), indicates both its acceptance in

the broad emissions analysis community and the depth of support that is offered not only by the consultant team, but also by peer users. We will continue to actively monitor the EPA's progress in updating MOVES and related modeling requirements. In response, we will continue to prepare appropriate software updates and input data.

MOVES2014B SETTINGS AND INPUTS

The PPSUITE/MOVES2014b package has already been installed at SJTPO. AECOM is continually enhancing its PPSUITE software to support the MOVES2014b version. Input data – statewide and county specific – has been updated for MOVES2014b by AECOM with support and guidance from the NJDOT and the NJDEP. This data will be used for the proposed project emissions estimate runs.

The AECOM Team will continue to work closely with the NJDEP and the EPA so that the proper local settings and inputs are used for MOVES2014b. The updated emission model not only expands run specifications to new fuel/vehicle combinations and output aggregation options, but has also created significant changes to the activity and non-activity inputs, increasing the number of imported data files from thirteen to eighteen. The MOVES activity inputs are based on travel demand model results. The correct file structure of these inputs will be insured by utilizing the most current CENTRAL/PPSUITE software updated for MOVES014b. The setting of non-activity inputs includes inspection and maintenance program specifications, vehicle registration data, vehicle mix data, anti-tampering program description, fuels, meteorology, source type population, engine retrofit program, low emission vehicle program, and truck idling (hoteling).

The latest CENTRAL/PPSUITE/MOVES setup installed at SJTPO includes a daily vehicle miles traveled (VMT) input option that will be applied for SJTPO daily ozone precursors estimates. That upgrade makes MOVES input VMT consistent with information generated by the regional travel demand model.

HPMS VMT ADJUSTMENTS

Before travel activity data can be calculated, the VMT calculated from the travel demand model's traffic assignment process must be adjusted to match reported VMT quantities from the Highway Performance Monitoring System (HPMS). The current data for the 2017 base year has been used for 2017 NEI. These VMT adjustments will apply for FY 2020-2029 TIP emissions estate. AECOM will capture the HPMS VMT data and prepare updates if the Interagency Consultation Group (ICG) decides to change the base year for the FY 2020-2029 TIP Conformity determination to a later year than 2017.

INTERAGENCY COORDINATION

Coordination is an ongoing focus throughout the air quality analysis and conformity determination process. It is essential to keep participating agencies and entities informed of the progress, methods, and products in use for the determination. The SJTPO Project Manager (PM) will convene up to two (2) meetings of the ICG as necessary. These meetings may be via conference call or in person. The AECOM Team will work directly with the SJTPO PM to coordinate with the ICG members (i.e., other SJTPO staff, USEPA, NJDEP, NJDOT and representatives from the involved counties). If other work is required to meet CAAA standards, such as updates to the HPMS files, the AECOM Team will work closely with the PM and member agencies to identify and implement solutions to keep the project on track.

SCOPE OF SERVICES

TASK 1. COORDINATION

This Task covers project management activities including communications and progress reporting. The AECOM team will establish an effective means of coordinating and reporting work activities to the SJTPO PM and staff.

At the beginning of the project the AECOM PM will prepare a schedule depicting major work elements, activities, and milestones. The PM will submit this schedule at the kick-off meeting/conference call for the SJTPO review and approval. The AECOM team will follow the approved schedule as closely as possible throughout the course of the project, with any changes subject to approval of the SJTPO PM.

The AECOM team will assist SJTPO to arrange two ICG meetings/conference calls. The AECOM PM will be responsible for preparing meeting agendas, including handouts and/or electronic slideshow presentations if applicable. We will work directly with the SJTPO PM to coordinate with the ICG members and will be responsible for preparing minutes and other needed meeting records, recordings, and resolutions.

Bi-weekly status reports will be provided to the SJTPO PM in addition to the coordination calls at project milestones. We will provide all related inputs, process, outputs, and documents to SJTPO for their record. The AECOM PM will coordinate with the SJTPO PM to determine the best process for data and document transfer.

AECOM will provide QA/QC of the process and deliverables according to industry standards and the high quality management requirements set by ISO standards. Our approach to quality follows the international standard for quality management systems (QMS), ISO 9001. As one of the few ISO 9001-certified professional and technical services firms in North America, AECOM developed its system to address the standard's requirements. We regularly confirm our compliance with these standards through formal auditing and verification. Initially certified in 2002, we have continuously expanded the scope of our ISO certification. In fact, during 2011 we achieved a single, unified ISO 9001:2008 certification covering all our business lines in North America.

AECOM believes that quality is everyone's job – from the CEO to the entry-level technician

Project deliverables for Task1: Coordination will include the following:

- ▶ Deliverable 1.a: Bi-weekly emails: AECOM Team will provide bi-weekly progress reports to the SJTPO PM via email. We will organize a project kick-off meeting/conference call and task completion milestone conference calls with SJTPO PM and staff.
- ▶ Deliverable 1.b: Meetings: The AECOM Team will assist in preparation, attend and participate in two ICG meetings/conference calls. We will prepare minutes of the meetings and provide them to SJTPO within five (5) business days. SJTPO will arrange and set up all the ICG calls, as well as prepare the ICG meeting minutes.
- ▶ Deliverable 1.c: Installation of Emission Modeling Software DVD: The AECOM Team will update the CENTRAL/PPSUITE/MOVES User's Guide, create CENTRAL/PPSUITE installation DVD and provide required software license to run the post-processor at the SJTPO office. A working meeting at SJTPO office will be scheduled on a mutually convenient day to install the latest emission model

and its post-processor on or before April 10, 2020. SJTPO staff will take responsibilities to install and troubleshoot software setup at the SJTP office. It is SJTPO's desire to still have AECOM budget some hours for on-call (via telephone) technical assistance associated with installing and running the software. Two hours of technical assistance were allocated in the budget.

TASK 2. REGIONAL EMISSIONS ANALYSIS FOR THE 2050 RTP AND FY 2020-2029 TIP

The following steps will be undertaken to complete the South Jersey 2050 RTP and the FY 2020-2029 TIP air quality Conformity analysis that is expected to take place later in 2019. The AECOM Team will use MOVES2014b emission model or the latest available, if recommended by ICG. At this time, SJTPO will use the existing travel demand model and an operational CENTRAL/PPSUITE post-processor associated with that model in support of the emissions estimates using MOVES.

The AECOM Team understands that coding of regionally significant, non-exempt transportation projects into the proper South Jersey Travel Demand Model (SJTDM) highway and transit networks and other input files will be done by the SJTPO staff. We will provide quality assurance by reviewing the SJTDM resulting networks, as well as monitoring project effects on the emissions estimates for each scenario and year.

Interagency Consultation

We will also coordinate with the ICG, NJDOT and NJDEP and additional updates in emission modeling, data development, and conformity determination process.

We will work directly with the SJTPO PM to coordinate with the ICG members and will be responsible for preparing minutes and other needed meeting records and resolutions.

Emissions Calculations for Conformity Determination

Combinations of computer programs centered on the MOVES and PPSUITE post-processor programs will be used to analyze FY 2020-2029 TIP and RTP conformity in the SJTPO region. The PPSUITE software has been developed by AECOM and has been used by SJTPO, the NJDOT the NJDEP and NJTPA for emissions estimation in New Jersey. In addition, PPSUITE is used by other state DOTs, including Maryland and Pennsylvania, for their statewide analysis and emissions inventories. PPSUITE is also used to conduct conformity determinations by MPOs such as NJTPA and Lehigh Valley Planning Commission. PPSUITE has been successfully transitioned to MOVES2014b emission model, which will be utilized for the NEI analysis at SJTPO in 2018. The AECOM team will also assess the practicality of utilizing the most recent emission model, if a newer version becomes available during the life of this project.

PPSUITE has consistently been shown to meet all the Federal guidelines and regulations for regional Conformity Analysis as specified in Transportation Conformity Rule 40 CFR Part 93. PPSUITE has repeatedly provided the local data that was the subject of SJTPO's certification by federal agencies.

MOVES and PPSUITE input data are fully reliant on local (i.e. MPO and State) data developed by the AECOM Team in collaboration with NJDEP and NJDOT. No MOVES national default activity data is used for the Conformity analysis.

MOVES input data development associated with the scenario years will be completed within this task. The SJTPO emissions estimation process will strongly benefit from the use of non-activity MOVES input data

developed by the NJDOT and the NJDEP as inputs to PPSUITE and MOVES. The NJDOT has historically provided support for the data preparation for emissions estimates and evaluation of federal policy and guidance related to regional air quality analysis. The PPSUITE/MOVES software package as employed by the NJDOT/NJDEP can expedite SJTPO's data gathering, flawless County Data Manager import, and database creation processes within the pressures of the conformity determination schedule.

Emissions calculations will be generated with the use of SJTPO's travel demand model, MOVES2014b emission model and related non-activity data. Based on the RFP, we anticipate that SJTPO staff will provide complete model run results for each scenario year. The AECOM Team will run MOVES2014b to conduct emissions estimates of the TIP and RTP scenarios.

Emissions will be calculated for two categories of pollutants: VOC and NOx. CO does not need to be reported and is not necessary for this conformity determination.

~~As for the RTP, for projects that cannot be evaluated directly "on model," NJ AQONE or other best-practice, off model methods, as appropriate, will also be used by SJTPO staff to estimate their emissions impacts.~~

~~The NJ AQONE software has developed by AECOM Team member Baker with technical support from AECOM. NJ AQONE has been used for multiple rounds of conformity determinations in the SJTPO region and numerous other areas. Baker will assist the SJTPO staff to guide their use of off model analysis using NJ AQONE. The resulting project benefits can be reported separately, or they can be plugged into the post processing step as a group so that they are reflected in the final emissions estimates and tabulations.~~

Conformity Report

The AECOM Team will provide a technical memorandum summarizing the emission estimate methodology and results for summer weekday VOC and NOx for five scenario years. We will provide summaries of VMT, speed, criteria pollutant quantities, and other relevant information to support drafting of the conformity report by SJTPO staff.

The AECOM Team will assist the SJTPO staff in finalizing the conformity report by reviewing the draft report, supplying notes regarding the emission estimation methodology, and providing general quality control.

The AECOM Team will update the post-processor User's Guide documentation to reflect specific SJTPO implementation conditions.

We will create a backup and installation DVD for SJTPO. Also, full copies of PPSUITE/MOVES input and output files, for all scenarios, will be provided on this DVD.

Project deliverables for Task 2: Assistance with Preparation of SJTPO Portion of Statewide Emissions Inventories will include the following:

- ▶ Deliverable 2.a: Interagency Consultation: The AECOM Team will participate in two interagency consultation teleconferences, and will assist the SJTPO PM as needed, including, but not limited to, preparation of meeting minutes.
- ▶ Deliverable 2.b: QA/QC of Loaded Transportation Networks: The AECOM Team will receive loaded transportation networks from SJTPO and perform quality review to ensure model links are

accurate; (i.e., have accurate functional classifications, facility types), and model volumes, VMT, average speeds, and other outputs are reasonable. At the end of the review process, we will provide a technical memorandum summarizing edits/adjustments to network and/or any other input and output files.

- ▶ Deliverable 2.c: Reporting of Emissions Results: The AECOM Team will develop a set of tables of overall emissions quantities for TIP and RTP scenarios of VOC and NOx for summer season. This table will compare the estimates to the established budgets and a Pass or Fail grade will be given for each pollutant. We will provide technical assistance if any additional support or additional scenario runs (beyond the standard runs) are required within the agreed project budget.
- ▶ Deliverable 2.d: Data Delivery: A data DVD with MOVES backup information, run specifications and databases and related inputs, following USEPA's standard format will be provided to support USEPA's conformity determination review. AECOM will also transfer to SJTPO air quality conformity process inputs, programs, and raw outputs for conformity run scenarios.

TASK 3. ASSISTANCE WITH THE PREPARATION OF SJTPO PORTION OF STATEWIDE EMISSION INVENTORIES FOR NJDEP

New Jersey Department of Environmental Protection coordinates statewide air quality analysis effort and data development. The AECOM team will help SJTPO with the MOVES input data update data development and emission estimates for four counties to support NJDEP. 's undertakings in submitting its attainment demonstration State Implementation Plan (SIP). We will apply CENTRAL/PPSUITE/MOVES2014b setup for emission estimates and reporting. The SJTPO staff will provide reviewed and approved loaded highway networks for each year/scenario and participate in coordination with NJDEP and NJDOT.

The AECOM Team will assist SJTPO in statewide emission inventory development by estimating the ozone precursors for base year and year 2023. The selection of the base year will be determined during the consultation with NJDOT and NJDEP to be consistent with the latest USEPA Nation Emission Inventory, NJDOT HPMS VMT, and other available data.

The AECOM Team will provide the SJTPO PM with a short technical memorandum summarizing the data development methodology and emission estimate results. We will create a data DVD for SJTPO.

AECOM team will conduct technical assistance and data development work within budgeted number of hours.

Project deliverables for Task 3: Assistance with the Preparation of SJTPO Portion of State Emission Inventories for NJDOT will include the following:

- ▶ Deliverable 3.a: Receipt of Loaded Transportation Networks and QA/QC: The AECOM Team will receive additional loaded highway networks from SJTPO and complete quality review similar to Deliverable 2.b. We will provide an updated technical summary of our network review.
- ▶ Deliverable 3.b: SIP Emission Estimates: AECOM will prepare update all necessary MOVES inputs and use CENTRAL/PPSUITE/MOVES to revise estimate emissions for two SIP scenarios, building on

the work performed to produce Deliverables 2.b. and 2.c. MOVES activity inputs will be based on the travel demand model outputs generated during the air quality conformity analysis in Task 2 and for the 2017 NEI data development in 2018. SJTPO staff will be responsible to generate and review travel demand model outputs.

- ▶ Deliverable 3.c: Technical Memorandum: The AECOM Team will provide a brief technical memorandum summarizing the data development process, methodology and results. The AECOM Team will provide a data CD to the SJTPO and NJDEP or transfer data via FTP.

A full site license (for the SJTPO office in Vineland) for CENTRAL/PPSUITE will be provided to SJTPO. The CENTRAL/PPSUITE software is for use in the SJTPO office only, and may not be transferred to others without prior arrangement with AECOM. MOVES and related data are in the public domain.

Project Schedule

The project schedule is shown in the following table. As specified in the RFP, Notice To Proceed is assumed to be on or about August 1, 2019. The regional emissions analysis for the 2050 RTP and FY 2020-2029 TIP will be completed by December 16, 2019. The New Jersey statewide SIP input data and run results will be completed and delivered to SJTPO and NJDEP by March 23, 2020. This schedule will allow enough time for review, feedback, and any technical changes, if such required.

Task	FY 2020 Air Quality Assistance	Estimated End Date or Task Duration
	Notice to Proceed	August 1, 2019
	Kickoff Meeting	August 20, 2019
1.a.	By-weekly project progress coordination	Aug 20, 2019 – Mar 23, 2020
1.b.	First ICG meeting – conference call	October 10, 2019
1.c.	Installation of emission modeling software and training meeting	March 25, 2020
2.a.	Second ICG meeting – conference call	December 18, 2019
2.b.	Travel demand model results review and technical summary	Nov 6 – Dec Nov 29, 2019
2.c.	Emission modeling and reporting	Dec 2 – Dec 16, 2019
2.d.	Technical documentation and data DVD to SJTPO	January 17, 2020
3.a.	SIP Travel demand model results review (2023 analysis year)	March 2 – March 6, 2020
3.b.	SIP data development update, QA/QC, and coordination with NJDEP	Feb 24 – March 6, 2020
3.c.	SIP emission modeling, reporting, and technical memorandum	March 9 – March 20, 2020
3.d.	SIP Technical documentation and data DVD to SJTPO and NJDEP	March 23, 2020

STAFFING PLAN

The staffing plan for the proposed work is shown in the following table. Altogether the AECOM Team will expend 334 273 person hours:

- AECOM 228 200 hours
- Michael Baker International 36 22 hours
- WSP Parsons Brinckerhoff 30 20 hours

- Sobers Consulting LLC 40 31 hours
- Total 334 273 hours

Sobers Consulting LLC is a certified Disadvantaged Business Enterprise (DBE). Sobers Consulting has been allocated 13.0% of the project's budget.

A number of elements of this project cannot be determined at this time including:

- ▶ Additional, unanticipated meetings beyond those highlighted above (Task 1)
- ▶ ICG decision to change HPMS VMT base year
- ▶ MOVES version available at the time of emission analysis
- ▶ The requirements of number and extent of analyses needed to achieve air quality / emissions requirements and targets beyond specified in this Request for Proposal (Tasks 2 and 3).

Should additional efforts be needed to complete any task item, AECOM will alert SJTPO as soon as possible. AECOM will then work with SJTPO to identify the best way to proceed while remaining within the available budget.

**FY 2020 Air Quality Assistance
Staffing Plan - revised**

AECOM					
Name	Title	Hours per Task			Total Hrs
		1	2	3	
Ira Quiat	Project Director	2	0	0	2
Anna Aleynick	Project Manager	16	54	12	82
Arkady Nakhimovsky	System Analyst	0	24	0	24
Yogesh Patel	Transportation Planner	0	6	0	6
John Buckholz	Quality Review	2	4	2	8
Priyal Pandya	Environmental Engineer	8	60	10	78
	Sub-total hours	28	148	24	200

WSP Parsons Brinckerhoff					
		Hours per Task			Total Hrs
		1	2	3	
Kyle Winslow	Senior Supervising Engineer	0	4	0	4
Carlos Bastida	Senior Technical Analyst	0	16	0	16
	Sub-total hours	0	20	0	20

Michael Baker International					
		Hours per Task			Total Hrs
		1	2	3	
Robert d'Abadie	Senior Transportation Planner	6	2	2	10
Ying-Tzu Chung	Environmental Specialist	0	6	6	12
	Sub-total hours	6	8	8	22

Sobers Consulting LLC					
		Hours per Task			Total Hrs
		1	2	3	
Terrence Sobers	Principal	7	24	0	31
	Sub-total hours	7	24	0	31

Summary of All Firms

Hours per Task			Total Hrs
1	2	3	
41	200	32	273

Revised budget – July 3, 2019.

FY 2020 Air Quality Assistance

August 2019 - June, 2020

SUMMARY BUDGET FORM

LABOR COSTS	
Direct Labor	\$10,778
Overhead at 136.85%	\$14,750
Subtotal Labor	\$25,528
 NON-SALARY DIRECT EXPENSES	
Graphics	\$0
Travel	\$0
Postage	\$30
Subtotal Non-Salary Direct Expenses	\$30
 SUBCONSULTANTS	
WSP Parsons Brinckerhoff	\$3,244
Michael Baker International	\$3,116
Sobers Consulting LLC (DBE)	\$5,013
Subtotal Subconsultants	\$11,373
FIXED FEE (12%)	\$3,064
TOTAL	\$39,995

DBE Participation 12.53%

	Taks Name	
Taks 1	Coordination	\$6,501
Task 2	Regional Emissions Analysis for the 2050 RTP and FY 2020-2029 TIP	\$28,872
Task 3.	Assistance in Preparation of SJTPO Portion of Statewide Emissions Inventories for NJDEP	\$4,540
	Expenses	\$30
Total		\$39,995

SOUTH JERSEY TRANSPORTATION PLANNING ORGANIZATION

RESOLUTION 1907-21: Approving the Selection of AECOM Technical Services, Inc. as the Consultant for the FY 2020 Air Quality Technical Assistance Technical Study

WHEREAS, the South Jersey Transportation Planning Organization (SJTPO) is the Metropolitan Planning Organization (MPO) designated under Federal law for the southern region of New Jersey including Atlantic, Cape May, Cumberland, and Salem Counties; and

WHEREAS, the Fiscal Year 2020 SJTPO Unified Planning Work Program includes Federal Highway Administration planning funds for this project; and

WHEREAS, the Notice of Availability of Requests was sent to approximately 227 firms on May 21, 2019; and

WHEREAS, the Request for Proposal (RFP) announcement and supplemental materials were also posted on the publicly accessible SJTPO website; and

WHEREAS, one (1) proposal was received; and

WHEREAS, the SJTPO Technical Advisory Committee (TAC), at their May 13, 2019 meeting, vested consultant selection authority in a committee consisting of one representative from the New Jersey Department of Environmental Protection (NJDEP), Atlantic County, Cross County Connection TMA, and SJTPO staff, which reviewed and evaluated the proposals in accordance with SJTPO's published criteria; and

WHEREAS, the Consultant Selection Committee recommends AECOM Technical Services, Inc., in association with Michael Baker International, WSP Parsons Brinckerhoff, and Sobers Consulting LLC serving as the Disadvantaged Business Enterprise (DBE) firm; and

WHEREAS, the SJTPO TAC, at their July 8, 2019 meeting, endorsed the recommendation of the Consultant Selection Committee;

WHEREAS, this project will be funded out of Task 20-401 Air Quality Technical Assistance, with a budget of \$39,999 from the Fiscal Year 2020 SJTPO Unified Planning Work Program;

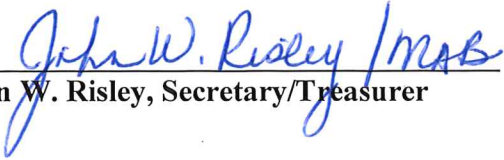
NOW THEREFORE BE IT RESOLVED, that the Policy Board of the South Jersey Transportation Planning Organization hereby approves the above selection for the FY 2020 Air Quality Technical Assistance technical study, with a maximum fee of \$39,995 and a 12.53% DBE participation; and

BE IT FURTHER RESOLVED, that the Policy Board authorizes the Executive Director to execute scope of work and cost modifications to the original contract amount, provided that funding is available.

BE IT FURTHER RESOLVED, that the Policy Board requests that the South Jersey Transportation Authority execute the appropriate contractual arrangements with the consultant on behalf of the SJTPO.

Certification

I hereby certify that the foregoing is a correct and true copy of a resolution adopted by the Policy Board of the South Jersey Transportation Planning Organization at its meeting of July 22, 2019.

Handwritten signature in blue ink that reads "John W. Risley / MAB". The signature is written in a cursive style and is positioned above a horizontal line.

John W. Risley, Secretary/Treasurer