ERT Version History

ERT Version	Version Date
3	2/12/2008
Description of Updates	
This version has a Printable Test Report	

ERT Version	Version Date
3	7/22/2008
Description of Updates	
fixed it to trap for invalid drives when looking for existing project data sets on startup	

ERT Version	Version Date
3-1	9/22/2009
Description of Updates	
- 6/4/09 - Getting it ready for the Boiler MACT 114 letters: - added Methods: 0011, 26, 8 - added compounds: Total TEQ Diaxans, Total Furans, Total PCBs - added mouse overs for labels - added ShowTips for larger help text (uses Tags .. Just add text to tag and it will create popup help) - 8/19/09 - fixed Import to delete temp tables before a new import (in case the previous import was stopped) - 8/24/09 - added Hydrogen Floride and Hydrogen Bromide to Method 26A - 9/1/09 - upscale calibration gas can now be low, med or high (as opposed to med or high) - 9/14/09 - reduced white space inbetween detail data run report for test report - 9/16/09 - fixed Printed Test Report… it was duplicating runs and it was not showing all compounds … also fixed the Emissions summary… that was only showing emissions if they were in a table… now it shows all Emissions - 9/17/09 - fixed BuildMassByLocation to include the method in the select… now it is Location, Method, Compound…. Had situation where the location and compound was the same for 2 diff. methods… this caused an extra record in the emission summary section of the test report. - 9/17/09 - fixed ISO run data tabs so they recalculate without having to close it down… fixed onchange event of the tab control - 9/22/09 - fixed test plan report to show the correct SCC description … also added UOM, Target, and Comment fields to the testplan screen for APCD's	

ERT Version	Version Date
3-1	10/5/2009
Description of Updates	
- 9/30/09 - took formatnumber() off of Mass_mg calc for qrymasscalcs … this was causing incorrect emission calcs for lower numbers and units - 10/5/09 - Added combo methods for OTM 27/28; Method 5/OTM28; Method 17/OTM28; added congeners for Method 23	

ERT Version	Version Date
3-1	10/7/2009
Description of Updates	
- 10/7/09 - set the ISO flag for the new combo methods 5/28 and 17/28	

ERT Version	Version Date
3-1	12/9/2009
Description of Updates	
- 10/14/09 - fixed the Test Report to show the correct SCC description. - 10/15/09 - took out the formatnumber() for the CalcCGas calculation… before if the Cgas number was below .09, it would give 0 for the answers - 10/22/09 - fixed the Test Report to handle odd number of ITM runs (transposerMass, transposerCalcs) - 11/9/09 - fixed Method 26 to be an ISO method… it is actually a manual method, but it needs the ISO tabs - 11/30/09 - fixed so you can add more than 10 process runs… also can now edit the comments in the process run data - 12/2/09 - changed the format of the emissions to scientific notation … in apptblEmisConcsFull … also can add a target pollutant after the run data has been entered. - 12/9/09 - fixed the delete target pollutant and the run data calcs when using target polls with a single quote in the name	

ERT Version	Version Date
3-1	12/23/2009
Description of Updates	
- 12/21/09 - fixed compile error on Cgas calc - 12/23/09 - fixed problem with selecting and deselecting PCB's w/ Prime's; added 2,3',4,4',5,5'-HxCB and 2,3,3',4,4',5,5'-HpCB	

ERT Version	Version Date
3-1	1/20/2010
Description of Updates	
- For Method 23: - Changed Total TEQ Dioxans to Total TEQ - Added: Total Dioxins Total Mono-CBs Total Di-CBs Total Tri-CBs Total Tetra-CBs Total Penta-CBs Total Hexa-CBs Total Hepta-CBs Total Octa-CBs Total Nona-CBs 2,3,3',4,4',5/2,3,3',4,4',5'-HxCB	

ERT Version	Version Date
3-1	2/5/2010
Description of Updates	
- For Method 23, grouped the compounds and set display order. - Fixed so you cannot add target parameters that alread exist - Added ability to add notes to the individual runs for process, process lab, and APCD's … ERT will automatically update the table structure of older project data sets so there is no data loss.	

ERT Version	Version Date
3-1	2/8/2010
Description of Updates	
- Fixed the RunDataLab Screen to show the sorted Method 23 targets to allow easier entry from Lab Reports.	

ERT Version	Version Date
3-1	3/11/2010
Description of Updates	
- 2/9/10 - fixed order for Method 23 in Printed Test Plan and Test Report - 3/5/10 - fixed the single quote problem in the Test Report Printout for Method 23 congeners…. (buildmassbylocation) - 3/11/10 - added signature statements to the Printed Test Report and the Signature page.	

ERT Version	Version Date
3-1	8/2/2010
Description of Updates	
- 7/17/10 - -fixed import pick list to only show ISO methods…. Also run number pick list now limits for location (was showing runs at other locations with same method name for ITM data) - 8/2/10 - - Process/lab/apcd parameters added at the test plan now add the params to all runs. - Added Methods 5B,F; 12; 13A,B … also added columns for Method 1A - Test Report shows the Moisture % and Moisture % Saturated in the Summary portion - Can delete Process/Lab/APCD runs (cannot delete run 1) - can now change the name of the location	

ERT Version	Version Date
3-1	8/5/2010
Description of Updates	
- fixes error when adding the first process lab and/or APCD parameter - shows the process run data comment in the printed test report.	

ERT Version	Version Date
3-1	8/31/2010

Description of Updates

- 8/12/2010 -
  - can change run date
- 8/13/10 -
  - can now enter Fc when selecting "override" fueltype
  - added next/previous buttons to run data screen
- 8/20/10 -
  - do not have to enter a UOM if the lab value is 0 (conv2mg)
  - will now print Method 26 without ISO data entered (put resume next in transposerCalcs)
- 8/23/10 -
  - Fixed to handle the first location entry (check if savelocation isnull)
- 8/30/10 -
  - took out formatnumber in qrybuildcalcs for detlaPavg
  - created getAve function .. Used in reports… gets rid of #error or #num
- 8/31/10 -
  - added icon for popup help

ERT Version	Version Date
4	4/18/2011

Description of Updates

- 10/5/10 -
  - took out "me." reference in location combobox / frmrundatadetailsmaster …. Keeps it from crashing with Access 2010
- 10/7/10 -
  - add 19 for Fwt for Total Floride
  - took 0's out of apptblCOMPNDS for Molwt… this will keep it from getting a div 0 error on printing test reports…just shows blank
- 11/23/10 -
  - neg. Cgas now has popup asking to keep negative or make it a 0
- 2/2/2011 -UPDATES FOR ACCESS 2010 UPDATE
  1. Added PtrSafe in between the Declare and Function for declare statements…. Gets past the opening problem
  2. changed the getopenfiledialog .. Now using application.filedialog(msoFileDialogFilePicker)
  3. deleted master/child links in frmRunDataISO and frm RunDataITM … set them in code in frmRunDataDetailsMaster.cboLocation event
  4. now using the .accdb format
  5. added EF calc for "tons/hr"
- 3/20/11
  1. changed to .accdb format
- 4/5/11
  - fixed to import new and old spreadsheet
  - fixed attachments to work with .mdb and .accdb … changed subfrmattachments to be from query instead of fields (.mdb was xfile ole object)
- 4/13/11
  - fixed EFCalc to work… now correctly works with all poll units in the SCC table
  - added popup button in header data to show impingers info for Vlc
- 4/15/11
  - Test Report button now lets you view/export full report or data summary tables
- 4/18/11
  - Date/Version on the Main Access Title
  - Main Menu now in Main Access Window… all others are popups
  - Fixed the Attach buttons for .mdbs and .accdbs
  - can now size popup report screens
  - took out DQQ screens
  - works with 2007 or 2010 runtime
  - took out OTM27 and 28 … can now see custom methods
  - added QAQ tables, screens and queries…. Some data links are included … no scoring yet or auto checking

ERT Version	Version Date
4	6/16/2011

Description of Updates

1. added QA button to frmTestPlanSA … this brings up the protocol eval calculations screen (from NJ's spreadsheet)
2. added apptblDQQ back so the WebFIRE export will work .

ERT Version	Version Date
4	6/23/2011
Description of Updates	
1. for the EF export .. Fixed: - now averaging the process values - added lb/mmBtuO2 column - changed formats to scientific notation… now shows small numbers - now works with PCB's 2. changed emission averages in test report to scientific notation 3. fixed getprocessvalue() to return a 0 instead of a blank so the avg function in qryEFwebfireexport would work	

ERT Version	Version Date
4	6/30/2011
Description of Updates	
- fixed issue not being able to create empty data set… - also added Beta to version - changed the structure of the tblMethodParams.lblimits field to be a double	

ERT Version	Version Date
4	7/29/2011
Description of Updates	
- fixed rounding issue on average field in summary emissions report	

ERT Version	Version Date
4	8/25/2011
Description of Updates	
8/8/11 - can now give a CAS number and name for custom target parameter. 8/12/11 - now handles custom methods that were created in a different ERT app. It also handles custom methods that were deleted from the tblMethodParams but still has run data. 8/25/11 - fixed problem showing test review page… .isISO now pulled from Group	

ERT Version	Version Date
4	10/11/2011

Description of Updates

8/26/11
- added link to CAS number search website to add custom compound form
8/29/11
- lat/long fields must now have at least 5 digits after the decimal
- NAICS field must now be 6 digits
8/31/11
- fixed issue with emission summary not showing correct locations…. Had to change isISO to pull from getMethType() .. Fixed all isISO cases
9/1/11
- fixed deleting last emission unit issue….
- Can't edit Q7a…. Fixed… had to give apptblcompnd a unique key (CAS,Name)
9/7/11
- View All Runs button now to rebuilds trnsBuildCalcs before showing report
9/17/11
- added "Press Ctrl+P to Print" for all reports
9/18/11
- added PSTs screens, reports
- added button on ITM to add new run… this carries over all data from the record you are on to the new record and adds 1 to the run number
- for PST's… enter the Method 3O2, CO2 for the runs, then enter ref methods for 10-CO, 6c-SO2, 7E-Nox… then go to the PST method and enter the cems for the O2 and CO2… then go to the PST method and enter the CEMS data…
9/22/11
- took layouts out of PST reports so it will work in 2007 Runtime
- incorporated comments into Testplan QA screen
- added CDX Submission button (creates .zip with: 1) XML export file, 2)renamed zipped PDS)
9/27/11
- Add Run button for ITM run data only shows on the last record… also updates the cbomethod
- fixed ppm calculations (had to change case statement from "to" to ","
9/29/11
- CDX submission button now calls form to 1)review/set associations; 2)enter submit info; 3)create pkg file; 4)go to website
- submission file updates the submittal history.. This will be used for all submissions to all parties… (states, sources, error reports, etc.)
10/5/11
- added Email button to CDX submission form…(still have to manually select attachment-email body has file name)
- updated formats for frmQAScreen(and subforms)
- updated ERT Version History Report
- Select PDS now updates changes to field types and will unzip, save, and open the PDS from a pkg.zip file
- Changes screen colors
- added Help/Sys. Admin button… can view manual, version info, version history, calculations
10/6/11
- fixed isISO problem with Test Review form…Test was failing when selecting run data
- added Reports to show the formula's for Fields and Emission/Concentrations Calculations
- updated the wording in Question 12 to reflect new policy
10/7/11
- for ITM's pick flow, moisture, CO2, O2 from earlier runs….what is picked for flow defaults to others… can override
- select data set now lets you select from a …pkg.zip and .zip file… it pulls out the PDS, saves it locally under ProjectDate (creates projectdate if not there), and opens it
10/10/11
- ISO/Manual methods can pick CO2, O2 from Methods 3A CO2, 3A O2
- Now you give a Mol. Wt. for custom target params that are not in ERT… this lets the ITM emissions be calculated… (note,

ISO emissions don't need this)… Molwt for custom params is stored in tblmethodparams. Getfwt() checks apptblCOMPNDS and tblMethodParams for weight.
- updated the apptblCOMPNDS … added Methane, Ethane, Carbon, Propane… added CAS numbers and weights to others
10/11/11
- New methods: 102, 103, 104, 108, 0061, 215, 316, 0011 (was here, added targets)
- add web links, methods with targets report to admin screen

ERT Version	Version Date
4	10/24/2011

Description of Updates

10/12/11
- q7a (tblparams) was locking after a sort… took out old sort order (because it was a join and that was causing problems)
10/19/11
- Revise ERT main menu to show that there are several tabs where one can enter the test plan. (Some users are confused and assume that each menu item is a different part of the test plan rather than each menu item goes into the test plan at a different place.)
- Make Test Plan Title & Date, Facility Name, Address, Contact, Phone, email, Testing company, Test Company Address, Contact, Phone, email required fields. (NOTE: DON"T WANT TO MAKE THIS TOO RESTRICTIVE BECAUSE OF OPENING OLD PDS's W/OUT DATA… WOULD FORCE ENTRY OF DATA THAT's NOT THERE!)
- Change the Help popups near the “Faciltiy Name”
- Change the Help popup for the Testing Company to provide more detail.
- Make Select SCC from list a required field.
- For Item 7a & 7b, in the ? “Help Tip” screen. Delete the text about the Section 114 request.
- The main screen is deceiving. No matter which button under "setup/test plan" you click on it takes you to the same thing. This makes the ERT seem like there's more to fill out than there really is. There is no reason to have 5 button options when you can have just one and people can click the tabs.
- The intro screen has two errors. It should be sector policies (not policy), and measurement (not monitoring)
- Fix select zip if projectdata folder not there …. NOW unzip and package puts file in folder where PDS was
- fixed index error on selecting PDS when a field had changed
- Q5b. Changed "UOM" to Units
- Add Facility State ID on Facility screen
-Add Testing Co. project number
- Set default operational hours to 8760
10/20/11
- Fix "Attach File" buttons...took off "locked" in query
- Fix lat/long format field to be at least 5 places after the decimal
- reworded the "how to attach file text"…added how to add new attachment record and tips on making smaller PDF files
- removed CTM 40, updated wording and descriptions for PST methods
- "Custom" is first for the Methods list
- changed "reject" to "notice of deficiency" in action type
10/24/11
- added form for Q6 location
- fixed error when selecting "select" from ISO and ITM run data screens for associating runid's in dropdown list
- added form for Q4 Process… added target low, target high for process target range

ERT Version	Version Date
4	12/8/2011

Description of Updates

10/25/11
- fixed error on frmTestPlanSA load…. Was looking for frmtestplan.savelocation
- changed QAQ screen choices to "Completeness/Regulatory"

10/26/11
- added "Included Attachments" to the printed test plan and test report

10/27/11
- added the ability to create submission file with incomplete or bad run data… (sendanyway = yes)
- added detail form for Process lab and APCD's
- add detail form for Regulations .. Added process param and unit to tblRegs … ProcessParam picklist notinlist pops up subfrmProcess1 to add ProcessParam

10/28/11
- subfrmLocation … have to enter location name to enable other fields

12/8/11
- added previous page to the TestPlan and TestPlanSA pages
- ISO Screen .. CO2/O2 dropdowns.. Show date in column… don’t keep in field

ERT Version	Version Date
4	1/30/2012

Description of Updates

- 1/30/12-

1. Add county in testplan
2. Aded the following fields to XML file:

a. Facility Name, City, State, County, FRS, State ID, AFS Number, Testing Company, Testing Company Project Number, Permitted State Source ID, Permitted State Name, Last Run Date

3. Fixed XML Export … 2010 doesn't allow functions in queries with ExportXML… so made qryEFWebFireExport into a make table, then used table with export xml

4.FacilityTester Page:
- Made the FRS a required field
- Provide a Pop-Up help button (Blue question mark bullet) for Latitude/Longitude stating:
 - Provide the location of the emissions release point. Enter latitude and longitude in decimal format (i.e. 32.123456) with accuracy of at least five decimal places (10 ft)
- Q5a help text = This description should describe the process and associated controls to differentiate the facility from, or document similarities with others in the same SCC. A summary text description should be inserted in the box provided and more detailed description and process flow diagrams attached in a separate file.
- "Signatures" page (Test Plan and Test Report pages) Change Tab title from "Signatures" to "Pre Submission Review"Change Date Signed to Date Reviewed. Add field for email address for both Permitted Facility Representative and Testing Company Representative
- updated "tips" for smaller PDF's on attachments page
- added to and from email addresses for all POC's, reviewers, signers, and submitters… for submitters can pull from picklist of previously entered values
- changed the "Instrument Response" on the ITM Run Data page should be changed to "System Response"
- fixed Testplan and Test Report to show attachment list from old .mdb files
- added button on Run Data Methods screens that allows for the use to view/edit the location information for that location without having to go back to the test plan screens.

ERT Version	Version Date
4	2/14/2012
Description of Updates	
- 2/3/12 - - turned off "Compact on Close" so will not get message when closing from Runtime version - added "refence field" back to XML export… also updated the "view" export screen to show the new fields - 2/14/12 - - added "zip" to XML export … also made it so it will export County, even if county is null	

ERT Version	Version Date
4	3/2/2012
Description of Updates	
- 3/2/12- - Fixed Testplan and Test Report attachments list printouts to work with .mdb and .accdb PDS's.	

ERT Version	Version Date
	3/30/2012

Description of Updates

- 3/15/12 -
- added fields to emptytblPSTHeader and emptytblRunDataITM to handle the PST methods
- took out extra space in the method "Nox to …."
- can now import 9 runs from spreadsheet template
- fixed import of probe…. Comes in a "Pitot" from spreadsheet header data
- 3/20/12 -
- made spreadsheet import routine loop based on imported header runs… so it will loop and import point data for however many header rows they have in their spreadsheet (they could add more or less if they wanted)
- locked location name on location screen when started from Run data details master … also changed it so ERT checks the location.oldvalue against the location.value to see if it has changed and to see how to change the other tables … took out need for savelocation in oncurrent
- 3/22/12 -
- Save As will now not let you save as the same name as the current PDS
- Save As will now create .accdb instead of .mdb files
- submittal history getting in zipped PDS now
- fixed relative accuracy report….in GetCEMSO2(), now returns 0 instead of "" if isnull
- added Relative Accuracy Results to the reports pulldown… grouped report by location&method… new page each group
- 3/23/12 -
- made "lb/mmbtus" on PST report be 4 significant digits
- 3/26/12 -
- XML WebFIRE export file now has ERT version, puts "000", "Uncontrolled" if "Controlled" is not checked (location screen), and the runs are grouped by location, method, pollutant
- now will not create submission package file if they have process data (>0) and they have not associated ALL data runs with process runs
- For PST's you do not have to have PPM, Lb/Hr, and Lb/MMBTUO2 selected for the method. The report will work with no matter what has been selected.
- 3/28/12 -
- can now enter 20.9 for O2% header and 0 for CO2% header… checks for this in qryMassCalcsISO, qryMassCalcsITM
- now stays on correct tabs (ISO or ITM) after deleting emission in methods tab
- now creates XML file … made left join to qryEFU (not used now) in qryEF
- now filters on location, method, compound on test review page
- 3/20/12 -
- fixed folder select button in save as screen
- will now always create XML file,when they create the submittal package… will have 0 for EF

ERT Version	Version Date
	4/26/2012

Description of Updates

- 4/2/12 -
- fixed extra space in tblMethodsLink in "Nox to" for PST method
- 4/3/12 -
- fixed "calc points" in frmlocation…. Now handles duct sizes and non-particulate traverse
- 4/16/12 -
- for SCC's with no Poll_Unit, etc…. Changed convFromLB just keep the lbvalue
- had SCC form preload pick lists with what was there
- 4/20/12 -
- you now enter Unit_Poll, Measure, Material, and Action for SCC's without default data
- has new SCC table
- 4/24/12 -
- SCC table now only has Point Sources + Wood Stove SCC's
- updated SCC pick list to work with the 10 digit Wood Stove SCC's
- took out uncertified Wood Stove SCC's
-4/26/12 -
- SCC picker, now will keep the description at level one

ERT Version	Version Date
	7/10/2012

Description of Updates

- 5/8/12 -
- took out Cal drift correction for Cgas for Method 25A
- Method 3a O2 - make Cgas populate O2%, hide CO2, Moisture, Flowrate, runids
- Method 3a CO2 - make Cgas populate CO2 %, hide O2%, runids
- 5/9/12 -
- added check for latest version on "continue" of splash screen and button on admin form
- 5/18/12 -
- locked Corr Analyte and % on Q7b.
- 5/21/12 -
- created form for Corr. Analyte and % … has limits of O2, CO2 and 0-12
- 5/30/12 -
- took out sort(all quick menus) from lab form screen… for 2010, it would lock the fields if you did a sort (sorting 2007 did not lock fields)
- took away default emiss/conc on pick emiss/conc screen
- 6/1/12 -
- fixed the test report review q16 and q19… they were the same, now fixed and shows up on the report.
- 6/15/12 -
- when adding a process parameter, you now enter the Poll_unit, Material, Measure, and Action… have new process screen, prevents tabbing through to new record
- 6/20/12 -
- prevent tabbing to new record on location, process lab and parameter, apcd screens
- 6/22/12 -
- Will now handle process based emissions …. Updated qryBuildMass to create process based emissions… the header will show the compound / process
- updated the Emissions report to show process based emissions
- 6/25/12 -
- changed Vmstd:Format(([Y]*[Vm]*([Pb]+([DeltaH]/13.6))*Round((459.67+Min([tstdHDR]))/(Min([PstdHDR])*(459.67+[tm])),2)),"#.00")
- Vwstd: Format([Vlc]*ROUND(((459.67+Min(tstdHDR))*21.849*0.0022006)/(Min(PstdHDR)*18.02),5),"#.00")
- Test Plan Report - changed 7. to 7a. … took out Points column from 7b
- 7/10/12 -
- changed PPM to Percent in the PS3 Rata screens and reports

ERT Version	Version Date
	9/6/2012

Description of Updates

- 7/12/12 -
- fixed Add New Button on ITM Data screen … now updates the location and method dropdowns and works with runs higher than 9
- 8/1/12 -
- updata PST Methods and Report based on Ron's Calculations
- 8/8/12 -
- updated Vmstd and Vwstd caclulations based on Ron's Calculations
-Vwstd: FormatNumber([Vlc]*((459.67+Min([tstdHDR]))*21.849*0.0022006)/(Min([PstdHDR])*18.02),2)
- vmstd: FormatNumber([Vm]*[Y]*((Min([tstdhdr])+459.67)/Min([pstdhdr]))*(([pb]+([deltah]/13.6))/([tm]+459.67)),2)
- 8/16/12 -
- changed Pi to 5 decimal places
- formatted DeltaP to show 5 dec. places on screen. Formula has no format so full number is used.
- 8/21/12 -
- updated RATA reports for latest calculations from Ron
- 8/23/12 -
- took out Scientific notation in buildmasscalcs() for PST calculations…. This was causing rounding errors on PST reports
- can now exclude runs in PST reports
- 8/24/12 -
- only lets you exclude up to 3 runs
- 8/27/12 -
- updated O2/CO2 1.05 acceptance criteria to include the confidence coeficient
- forced dropping of the primary key for tblREGS on updatetables() .. This was causing the regulations screen to hang in some PDS's
- change run to type number in process, lab, apcd….. Fixed issue of adding process with more than 9 runs
- must have 9 runs to run RA report
- fixed process screen saving data on exit… and changed form.cycle to current record to stop tab throughs
- 8/29/12 -
- fixed Add New Run…. Added location to qratblrunlabaddrun … fixed that it would show all compounds if methods were the same but the locations were different in Lab screen
- took out time unit (/hr, /minute) in Emissions header for process based emissions
- added target parameters for Method 201A and Method 201A/202
- 9/4/12 -
- updated cosmetic and help items from User Manual Comments
- Comment field in Test Report Review Report now grows
- 9/5/12 -
- added Flag and Flag_Detail to XML Export to show lab BDL,DLL, Non BDL comments
- added footnote to PST reports (rounding)
- 9/6/12 -
- changed CDX link to the CDX home page

ERT Version	Version Date
	9/7/2012

Description of Updates

-9/7/12-
- RATA Reports show in print preview mode

ERT Version	Version Date
	3/18/2013

Description of Updates

- 9/27/12 -
- has new QAQ questions … .need to update how historical run adds are done
- fixed Save As Template… now creates dbversion120 (access 2007) database.
- 9/28/12 -
- ITM help button now shows and hides with add new button
- Will not import manual method data when there exists the same location, method, and Run number
- 10/2/12 -
- ERT will now show message if it can't get the ERT version from the web, instead of getting error and stopping
- 10/9/12 -
-QAQ questions will now update when QAQ button is clicked. This will bring old PDS's up to date
- 10/29/12 -
- added Method 30B
- added FRS and AFS number to the protocol review screen, changed "Non-particulate" to "Non-Isokintic"
- added checkboxes for Q1 (Part61,etc.)
- changed limits (took out of q2, q4… put in q7b)
- 12/6/12 -
- locked location subform on testplan screen… to edit, double click on the location name.
- 2/18/13 -
- testplan, rundata, testplan review screens open expanded, fields grow.. Option to open test plan maximized
- 2/27/13 -
- moved locations/methods/emiss page before regulations in testplan, testplan review, test plan report
- put reglimits back in regulation question
- updated help screen messages, screen units, and screen edits based on Ron's 2/27/13 email
- 3/6/13 -
- forced Fd, Fc, Fw on Run Header page to not be blank. Caused error when creating Export file(lbmmbtu)
-3/7/13 -
- fixed issues on adding new runs, updated help bubbles and screens based on Rachel's 3/7/13 email
- 3/12/13 -
- imported new SCC's
- 3/18/13 -
- made field widths wider on Q4 and 7b
- updated process based emissions now correctly show in reg limits drop down "lb/tons of material processed"
- replaced emis summary table with limits table in full test reprt

ERT Version	Version Date
4.1	4/11/2013

Description of Updates

- 3/19/13 -
- added Method 306 Chromium, Hexavalent Chromium
- cannot change process parameters from selected SCC process
- imports data from 3/19/13 version of manual test DE spreadsheet
- checks for gas meter, stack temp, and velocity before deleting empty records in import
- 3/20/13 -
- fixed issue with adding location with same name (location screen would not close)
- 3/21/13 -
- updated all QAQ showdata buttons
- 3/26/13 -
- changed doubleclick to click for popup screens (double click put window in back in 2007, worked in 2010)
- fixed TestPlanSA review to match question numbers
- made testplan cycle current record… fix for "enter parameter" msg.
- 3/27/13 -
- rundata screen hides emissions tab for Method 1-4 (flowrate, moisture calculated with the sampling/stack data results)
- 3/28/13 -
- fixed StateRev Comments to shwo Q2b … had to check old PDS and add record for EmisCon if not there
- fixed Rundata number of traverse points.. Now sums based on if deltap is empty or not
- add new ITM button now forces recalcs…. Also one change forces cascading recalcs
- ITM link dropdowns now show all methods
- fixed location screen to be active unless opened from state review…. Location is disabled if opened from rundata screen.
- 4/2/13 -
- Now answers completeness QAQs and gives completeness scores
- 4/4/13 -
- fixed new attachments to start at ID 40… this is for old PDS's that added attachments
- 4/9/13 -
- shows scores for Completeness and Reviewer Reviews
- 4/11/13 -
- Has Completeness and Reviewer Reports
-

ERT Version	Version Date
4.1	4/24/2013

Description of Updates

- 4/13/13 -
- New tabbed QAQ screen
- Attachment tables to print
- 4/17/13 -
- Save AS now converts tblattachments to new format
- Selecting a .mdb now warns that It can not be sent to EPA
- Create submission file stops if the PDS is a .mdb format
- Regulatory review questions have the option to include the completeness questions
- added help screens and formats from Ron's 4-17-13 email
- fixed emissions summary screen to work with 2007
- testplan attachment buttons turn blue text when they have attachments
- 4/18/13 -
- Testplan Review now shows attachment buttons (blue if attach. Exists)… cannot add/remove attachments
- Regulatory review cannot add/remove attachments
- updated mainmenu
- completeness button hides regulatory questions
- print buttons for questions
- 4/22/13 -
- fixed frmlocation (was not enabled)
- updated link texts in QAQ based on ron's spreadsheet 4/22
- added attachments based on the spreadsheet above
- 4/23/13 -
- added CARB Methods 468, 469
- now cannot add a new location with the same name as an old location
- changed XML export to now always at least show facility data
- added Test_Report_Rating to XML export
- fixed process description and test notes from truncating at 255…now memo fields
- qraEFExport forces " " if null so all fields export to XML file
- 4/24/13 -
- fixed Test Plan Review Report to match the new question numbers
- testplan review now has " ",Yes,No,N/A pulldown … defaults to " "
- testplan review "add/view comments" buttons now turn blue if they have a comment; black if empty

ERT Version	Version Date
4.1	4/29/2013

Description of Updates

- 4/29/13 -
- Sorts the point data on the Gas Meter field
- Checks for required fields (in tblRequired) before creating submission file. Shows list of missing fields with links to the data for data entry.
- updates the -1 to "Yes" and 0 to "No" for the old State Testplan reviews.

ERT Version	Version Date
4.1	3/18/2014

Description of Updates

- 7/31/2013 -
- added pick lists for state, county in testplan
- 8/15/13 -
- added in new QAQ questions and scoring
- 8/19/13 -
- deleted attachments 41,42 (certs for team leader and non reg reviewer)… combined 41 with 40 by changing description
- 9/16/13-
- added 30b screens
- 9/24/13 -
- fixed pick emissions and add run screens to show on main monitor
- fixed QAQ's to take into account Yes/No questions when determining the answer
- 11/18/13 -
- added updated 30B screens from spreadsheet
- 2/4/14 -
- updated 30B based on Ron's email
- 2/17/14 -
- now excludes runs for o2/co2 rata's
- 3/12/14 -
- updated text in Reg Review screen
- 3/13/14 -
- deleting index when selecting PDS. Older PDS's had this index which prevented adding the same pollutant to the location despite it being from a different method (old index was Location, Pollutant)
- added Method 108
- 3/17/14 -
- ITM calibration page now refreshes on tab click (forces recalcs)
- 3/18/14 -
- imported new 30B tables, screens, queries, modules
- point data sample rate field is not double number
- excludes Method 1-4 in export file
- hides lab data tab for Method 1-4

ERT Version	Version Date
4.1	4/7/2014

Description of Updates

- 3/21/14 -
- fixed 30b emissions calculation
- 30b now included in XML export file
- F numbers now go to zero (never null) if fuel type is deleted from dropdown lists on header pages. This was causing the xml export not to work because it was trying to average a null value.
- 3/24/14 -
- new Sorbent trap section 2 breakthrough
- ITM header screen now locks values if picked from other runs
- 3/25/14 -
- ITM tabs now recalculate when opened and on current
- for Method 3A CO2 and O2, the CO2% and O2% are yellow to indicate a calculated field… also the flowrate drop down does not update the CO2 or O2 fields if method 3A CO2
- 3/26/14 -
- Facility name will now not accept special characters… special characters would cause a problem when creating the package file name.
- 3/27/14 -
- Changed the way the export works.. Now exporting three tables, EFExport(table), qryEFExportFac, and qryEFtblRegs …. qraEFExport puts qryEF into the EFExport (table) because the grouped query would not export to XML, so had to go to a table first
- added regulation limit fields, and test purposes to XML export
-3/28/14 -
- 30b reports now show sample a and sample b where applicable
- 3/31/14 -
- QAQ for calibration, drift, and system bias test now checks if any records in tblCals…
- 4/1/14 -
- updated QAQ questions per ron's 3/13/14 email (changed some text and made some multfrm pop ups
- 4/2/14 -
- added PDSid and PDSidDate … these are unique PDS identifiers that are created when a PDS is created, saved as, or when selected if they are empty (meaning the PDS was from an earlier version)
- 4/7/14 -
- ERT now automatically includes the uncorrected analyte when a corrected one is selected in the emissions/concentrations pick list.

ERT Version	Version Date
5	5/7/2014

Description of Updates

- 4/8/14 -
- changes calsets now recalculates everything on itm run data screen
- 4/10/14 -
- added all emissions to the XML export
- xml export for webfire now by runs instead of average runs
- 4/15/14 -
-fixed Rata's so calibration data is correct (subfrmPSTHeaderCal changed to lnkLocation, lnkMethod)
- 4/17/14 -
- link location pull downs wider to handle location to 50 Characters
- added Part-SubPart combo for tblRegs…. Took out Compliance on qryEFtblRegs (export file)
- 4/18/14 -
- now prints PST reports from reports menu… PST reports are NOT included in the Full Test Report
- linked fields (ISO, ITM, 30b) are now updated when the forms are closed… so changes are pushed to the linked fields
- linkedID fields are now 75 characters
- 4/29/14 -
- changed .updates to SQL in transbuildcalcs, transbuildmass … the old way would cause ERT to bloat unless the row level locking was unchecked.
- 4/30/14 -
- check box to check version on startup
- checks row level locking on start up and turns it off… gives message to restart ERT
- EF XML export has list of locations and methods
- EF XML export has list of emissions
- EF XML export (and emissions results page) excludes Method 1-4 and Method 3A O2
- 5/6/14 -
- incorporated 30B XLS and XML imports and exports
- shows message when you delete a emis/conc from rundata screen that it will be removed from the emissions tab next time method is selected
- cannot delete emis/conc with correction until the correction is deleted first
- 5/7/14 -
- updated import rountines

ERT Version	Version Date
5	6/30/2014

Description of Updates

- 5/13/14 -
- turned off switch to turn off row level locking
- added code to turn on compact on close if access 2010 or later, turns off otherwise…. Pre 2010 versions can't compact ERT and give error message on close
- 5/14/14 -
- put timer in copy table routine to slow it down… fixed problem with creating new PDS
- changed on change to after update in frmSCCpicker
- 5/19/14 -
- added Method 30B QA/QC report
- updated version checker to look for "/ertv5/ERT5_"…..
- 5/29/14 -
- fixed transposerCalc and transposerMass to kick out on non multiples of 3
- 6/2/14 -
- 30b screens now only refresh current page
- the regulation description defaults to the decription selected in the Part60 dropdown on the regulations screen
- 6/4/14 -
- updated the APCD Table with new items from Ron
- “Degrees Fahrenheit”, “Degrees Celsius”, “Percent Opacity”, “Pounds per Square Inch”, “Pascal”, “Inches of Water”, “Inches of Mercury”, “Atmosphere” to the list of Measures
- “Six minute average” to the list of time unitsc
- “Observed”, “Measured” to the list of Actions.
- fixed completeness check not show ERT questions…
- 6/19/14 -
- added RunDate to emptytblRunLab30B so import will work
- 6/23/14 -
- XML export file will now be created even if bad data…
- 6/25/14 -
- fixed it to delete 30b run data from PDS when being saved as a template
- 6/30/14 -
- "User Entered" will now always show on dropdown list where applicable … changed query to pull from tblTestPlan where there will always be a record.
- when creating a new PDS, the empytblHeader(30B), emptblPointData(30B) table records are deleted before creation of new PDS. This will catch if the import data routine was exited unaturally.

ERT Version	Version Date
5	9/10/2014

Description of Updates

- 7/1/14 -
- set input masks for FRS, phone numbers, and zip codes
- put timer in LinkDataSet to slow it down… was getting error when trying to link to .mdb's
- 7/28/14 -
- added "RATA" check box to Test plan review screen
- deleted emptytbl30B so it will not create the table when creating new PDS. The tbl30B is not used.
- updated XML Export file to: get rid of qryEFMethodParams; add lat/long, NAICS, Air Permit number, Qaw, Stack Temp(ts) process parameter rate (all 5), made pollname and emissionunit fields names match
- 8/14/14 -
- completely changed the XML export format…. Tables, no nesting
- 8/19/14 -
- deleting method parameters now deletes emission/concentrations and will ask to delete run data if it is the last parameter for that method and if run data exists.
- 8/20/14 -
- deleting location now prompts to delete associated run data… if yes, location and run data will be deleted, if no, nothing is deleted
- 8/25/14 -
- fixed XML import… changed from docmd.savedxmlimport to application.xmlimport
- forcing "- user entered -" on import for ids .. .xml and xls
- 8/26/14 -
- XLM, XLS imports for 30B, ISO now work
- 9/5/14 -
- when submitting or resubmitting a test report, you are now prompted to review the completeness check during the creation of the package file.
- 9/8/14 -
- took out updatealllinkedfields… was crashing if linked field changed to #error… may fix later
- can edit the target High and Low for SCC process parameters
- 9/9/14 -
- changed process, apcd, and process lab reports to include general comments and SCC for process
- 9/10/14 -
- added location to tblAPCDcontrols

ERT Version	Version Date
5	10/27/2014

Description of Updates

- 9/11/14 -
- added Method 306A Chromium (Manual)
- added grams/sec … Format([Qsd]*[lb/dscf]*453.592/60,'Scientific') AS [g/sec]
- 9/12/14 -
- added Vlc and DeltaP to 30B import spreadsheet and ERT import routines
- 9/16/14 -
- took out "compound <> O2" in qrybuildcalcsITM
- 9/22/14 -
- updated popup text for Vm, Vmstd, and Vwstd in Method 30B
- 10/1/14 -
- fixed format for tester zip code
- 10/10/14 -
- debug for Release 10/15/14
- 10/20/14 - ERT5 error in 30b when selecting o2 id's… check field lengths for new PDS's
- 10/23/14 - completeness questions include manual questions for M30b
- 10/24/14 - fixed method, run number swap on qryEFMass
- 10/27/14 -
- M30B total sample volume now includes the correction (multiplying by Y)
- M30b corrected %H20sat calculation
- M30b Cw now uses the lower of %H20 and %H20sat
- Add Test Run Mercury Concentration (wet… ug/scm) under the Test Run Mercury field… will be average of the Cw's
- updated version check message to explain corporate blocks to internet access and how disable auto version check.
- locked the location and method field in the upload data review grids so they cannot be changed.

ERT Version	Version Date
5	11/19/2014

Description of Updates

- 11/3/14 -
- added "lb/trillion Btu using CO2 and O2" to emissions concentration list
- 11/5/14 -
- Method 30b.. Fixed Qsd picklist, added moisture pick list, grouped temp, moisture and CO2, O2
- color coded point data columns to show required fields
- 11/6/14 -
- Method 30b header leak checks can now be zero and will show zero %... Updated QA comments to reflect valid 0%
- fixed QA "Sample flow rate checks"… now will show zero % or say insufficient data, check the point data if empty or incomplete data. Also fixed the refreshes for the tabs to incorporate recalcs of other pages if needed for the current page
- 11/13/14 -
- added popup formula's on data results pages
- fixed M30 ts drop down to always have User entered (used tbltestplan)
- ActualOrificePresure field defaults to zero so DeltaH shows… corrected the calculation for DeltaH
- using stacktempA instead of volume to count points for 30b… 30b doesn't require volume (deltaP)
- Fixed (method 30b) QSD pull down… made PercH2O default to 100… was causing error in QSDcacl
- Method 30B Sample page - Vt now = Vmstd *35.315 … this changes it to M3
- AVT and BVT now = vmstd/35.314666…. This fixes the emissions calcs for 30b
- 11/15/14 -
- M30b Section 1 A and B Mass now has components
- 11/19/14 -
- DeltaH now uses number of traverse points instead of average…took out round for VmA,VmB,VmstdA,VmstdB
- fixed calculation for lowH2O
- sent to Ron for Release

ERT Version	Version Date
5	12/2/2014

Description of Updates

- 12/1/14 -
- RATA's now pick if they want to use CO2 or O2 for lb/MMBTU
- Ms now uses lower of H20 and H20sat (iso and 30b methods)
- 12/2/14 -
- added number of sampling points (stratification attachment) Method 30B QA to page and report
- sent to ron for release

ERT Version	Version Date
5	12/19/2014

Description of Updates

-12/4/14 -
a. Method 30b blowing up when going to just added run… was because I had changed DeltaH to be calculated by dividing the nettravpts instead of average…. So this was dividing by zero on new runs with no points… now checks if nettravpts is 0 first
b. For Qsd drop downs, have to not include method runs if there is no flow
- 12/5/14 -
- updated qrybuildcalcs (30b) to check for empty or incomplete data… should get rid of #error problems
- updated apptblFieldDesc to have new formula's
- ITM screen calc fields will now show formula on double click
- 12/9/14 -
- Fixed Method 30B import … changed apptblimportrundata fields F16 -F21 to double instead of integer… was importing zeros for small numbers
- Fixed qrySampleRateCalcs30B to use function to pull InitRate(A and B) instead of linking qryinitsamplerate30b in query… this drastically reduced load time for Method 30B screens
- sent to Ron/Stef for review
- 12/12/14 -
- fixed qrymasscalcs so that the same process rate parameter can be associated with multiple units of measure
- fixed qrylimits to match million and trillion with mm and T (on emissions screen) to match limits
- updated calculations for lb/trillion BTU using CO2 and O2
- added lb/Year; ng/joule using CO2 and O2; kg/hr
- fixed renaming run … conflict message… now closes run data form first.
- sent to Ron and Stef for review
- 12/19/14 -
- updated splash and admin screen with Stef's info

ERT Version	Version Date
5	1/28/2015

Description of Updates

- 1/8/15 -
- fixed RATA report… had problem if PercCO2 was null. Updated qrymasscalc to check first
- 1/16/15 -
- added sort order to qrymasscalc to fix order of emissions in test reports
- 1/22/15 -
- fixed HGConcetraion() fuction to trap nulls… this would cause 30b to throw error if the YhdrA value was null
- 1/28/15 -
- fixed post leak checks on 30B header to use Vta, Vtb instead of Avolume and Bvolume

ERT Version	Version Date
	7/5/2015

Description of Updates

- move set warnings up in exeCreateEmptyDB to stop delete warnings in Access 2013

ERT Version	Version Date
	10/9/2015

Description of Updates

- imported emptytbls with descriptions for Data Dictionary
- 8/12/15 - added required fields and keys to data dictionary
- created rptDataDictionary … to get word version, create PDF, then inside PDF, convert to word… that keeps the lines and colors. Can access report through admin screen.
- 8/13/15 - fixed issue where it would hang on step 3 if you went straight to create package file when ERT was first opened. This was because the "Date Created" was not part of the currname
- 8/20/15 - checks to see if "eyeyey" exists before trying to create it to uppack the zip package on selecting PDS
- 9/3/15 - uncommented on error in frmEFLink.load to show incomplete data message on package create
- fixed ISO,30b run screens causing "file in use" error on package create… commented out UpdateCurrRun … not needed
- 9/8/15 - red '*' on fields required to calculate emissions/concentrations on ISO header page
- 9/14/15 - Fast ISO fix … commented out assignment of master and child form links (except for emissions subform) in cbolocation.afterupdate. The lab and emissions was causing error in 2010.
- 9/15/15 - updated the message to show "only the target high, target low and comments" can be changed for the process associated with the selected SCC.
- 9/18/15 - had to uncomment link to lab form to fix 2010 run data error
- 9/22/15 - custom methods no longer save to apptblMethodsFull. The method dropdown now pulls custom methods from tblMethodParams. This allows a user to delete custom method if they enter it wrong (ITM or ISO).
- sent to EPA for review
- 10/7/15 - Method 30b now has DeltaHA and DeltaHB
- 10/9/15 - updated with new SCC's from Theresa Lowe… updated splash and admin screen to have Theresa's info
- sent to EPA for review

ERT Version	Version Date
5	10/29/2015

Description of Updates

- added Mod. Method 26A Sub. S and compounds
- added Method 0010 and compounds
- added Method 29 front and back half metals
- fixed FRS hyperlink on testplan and admin screen
- updated admin screen email link to Theresa Lowe
- help button on admin screen will now prompt for ERT manual if it can't find what it is looking for. So for a new manual, delete the old manual (in the same folder as ERT) and click the button. You will be prompted to select the new manual.
- created zipped .exe that has ERT and manual for release on EPA website

ERT Version	Version Date
5	11/13/2015

Description of Updates

- took out "nz" in tm calc…. This was causing it to average an extra row.
- Changed 30B printed report to not include leakchecks that = zero…

ERT Version	Version Date
	12/3/2015

Description of Updates

12/1/15
- RATA's… being done wrong… CEMS O2 was coming from Method 3A O2… this is wrong, all CEMS data should come from plant - Add column for CEMS O2 Corr on Rata page - Change calc to CEMS O2 from new field instead of Method 3A
12/2/15
- Fixed ITM data screen where it was zeroing out the emission for the first selected run. Had to uncomment the subform assignment in the cbolocation after update on master run data form
- sent .exe file for live version post to web
12/3/15
- Now when submission package file action is submit or resubmit test report, it catches and prompt to enter when the SCC process values are null or zero
- created .exe for live release

ERT Version	Version Date
	1/15/2016

Description of Updates

1/5/16-
- added Method 30B calculations to the calculations report.
- added popup calculations for Method 30B Sample Data Screen.
- created .exe for live release
1/15/16-
- added attachment records for M18 and M320 supporting data

ERT Version	Version Date
	2/14/2016

Description of Updates

- fixed it so manual test methods with out flow information will still create XML files, however there will be no emission factor.
- PS3 RATA report now grouped by location.
- RATA reports and screen now sorted by val([run])
- created .exe for live release